

COURSE AT A GLANCE (NEP-UG)

SUBJECT: STATISTICS

ACADEMIC SESSION: **2024-27**

CORE-I COURSE

Course Number	Semester	Course Title	Type of Paper P-Practical NP-Non-practical	Credit Hour	Maximum Weightage of Marks
Paper-I	I	DESCRIPTIVE STATISTICS	P	4	100
Paper-II		LINEAR ALGEBRA	P	4	100
Paper-III	II	PROBABILITY AND PROBABILITY DISTRIBUTION	P	4	100
Paper-IV		CALCULUS	P	4	100
Paper-V	III	SAMPLING DISTRIBUTION	P	4	100
Paper-VI		PARAMETRIC STATISTICAL INFERENCE	P	4	100
Paper-VII		SURVEY SAMPLING & INDIAN OFFICIAL STATISTICS	P	4	100
Paper-VIII	IV	REAL & NUMERICAL ANALYSIS	P	4	100
Paper-IX		LINEAR REGRESSION ANALYSIS AND FORECASTING (NPTEL)	P	4	100
Paper-X		STATISTICAL QUALITY CONTROL	P	4	100
Paper-XI	V	DESIGN OF EXPERIMENTS	P	4	100
Paper-XII		STATISTICAL COMPUTING USING R PROGRAMMING	P	4	100
Paper-XIII		OPERATIONS RESEARCH	P	4	100
Paper-XIV	VI	NON- PARAMETRIC STATISTICAL INFERENCE	P	4	100
Paper-XV		MULTIVARIATE ANALYSIS	P	4	100
Paper-XVI	VII	TIME SERIES ANALYSIS	P	4	100
Paper-XVII		OPTIMIZATION TECHNIQUES	P	4	100
Paper-XVIII		ECONOMETRY	P	4	100
Paper-XIX		STOCHASTIC PROCESS	P	4	100
Paper-XX	VIII	SCIENTIFIC COMPUTING USING MATLAB (NPTEL)	P	4	100
Paper-XXI		ACTUARIAL STATISTICS	P	4	100
Paper-XXII		BAYESIAN PARAMETRIC INFERENCE	P	4	100
Paper-XXIII		STRATEGY: AN INTRODUCTION TO GAME THEORY	P	4	100

CORE-II/CORE-III COURSE

Course Number	Semester Core-II/ Core-III	Course Title	Type of Paper P-Practical NP-Non-practical	Credit Hour	Maximum Weightage of Marks
Paper-I	I/II	DESCRIPTIVE STATISTICS	P	4	100
Paper-II	III/IV	PROBABILITY AND PROBABILITY DISTRIBUTION	P	4	100
Paper-III	V/VI	SURVEY SAMPLING & INDIAN OFFICIALS STATISTICS	P	4	100
Paper-IV	VII	TIME SERIES ANALYSIS	P	4	100
Paper-V	VIII	SCIENTIFIC COMPUTING USING MATLAB(NPTEL)	P	4	100

OTHER COURSES

MULTIDISCIPLINARY COURSES (MDC) UNDER NEP-2020

Note: The students of 2024-25 admission batch have to opt for the MDC courses following the allocation from 2nd semester onwards, vide University Letter No-3177/Acd. – I, Dated: 15. 07. 2025 & Letter No. 3993/Acd-I Dt: 02.09.2025.

The classes will be assigned to the teacher/faculty competent to teach the course by the Principal.

Three courses to be chosen from baskets of Multidisciplinary courses for Semester-II & III with 3 credits each. Students are advised to choose one course/ Semester from the basket provided. Students are advised to opt for courses outside their discipline. No repetition of courses allowed.

SEMESTER: II

Course No.	Semester	Dept. to Teach	Course Title	Type of Paper P- Practical NP-Non-practical	Credit Hour	Maximum Weightage of Marks
Paper-II	Semester-II	Statistics	Survival Analysis and Biostatistics	NP	3	100
		Zoology	Apiculture	NP	3	100
		Education	Gender and Education	NP	3	100
		Geography/Geology	Climatology	NP	3	100
		Philosophy	Vedic Culture	NP	3	100
		Hindi	Vigyapan Avadharana Aur Prayojanmulak Aayam	NP	3	100
		Home Science	Food and Nutrition	NP	3	100
		Commerce	Fundamentals of Entrepreneurship and E- Commerce	NP	3	100
		Economics	Demography	NP	3	100

SEMESTER: III

Course No.	Semester	Dept. to Teach	Course Title	Type of Paper P- Practical NP-Non-practical	Credit Hour	Maximum Weightage of Marks
Paper-III	Semester-III	Mathematics/Computer Science	Programming in C++	NP	3	100
		Physics	Introduction to Spectroscopy	NP	3	100
		History	Indian Knowledge System	NP	3	100
		Pol. Sc.	Human Rights	NP	3	100
		Sociology	Environmental Issues and Challenges	NP	3	100
		Commerce	Entrepreneurship Development and Start-up	NP	3	100
		Psychology	Health psychology	NP	3	100
		Sanskrit	Philosophy of Bhagavad Gita	NP	3	100
		Botany	Herbarium Preparation	NP	3	100

SKILL ENHANCEMENT COURSES (SEC) UNDER NEP-2020

Note: The students of 2024-25 admission batch who have already opted the SEC for 2nd semester will continue with the same. They will have to follow the following allocation from Fifth Semester onwards, vide University Letter No-3177/Acd. – I, Dated: 15. 07. 2025 & Letter No. 3993/Acd-I Dt: 02.09.2025.

The classes will be assigned to the teacher/faculty competent to teach the course by the Principal.

Three courses to be chosen from the baskets of SEC for Semester-II/V/VI respectively with 3 credits each. Student can opt any one of SEC courses in a particular semester from the basket without repetition.

Sl. No.	Semester	Course title	Credit hour (CH)	Marks
Paper-I	II	Personality Development Or Election studies and public opinion Or Quantitative and Logical Thinking Or Analytical Thinking and Logical Reasoning Or Renewable Energy & Energy Harvesting Or Vermicomposting	3	100
Paper-II	V	Yoga in Everyday Life Or Basics of Museum and Achieves Or Working with Communities Or Fundamentals of data science and data management Or Quantitative and Logical Thinking Or Programming With Mathematica	3	100
Paper-III	VI	Life Skill Education Or Quantitative and Logical Thinking Or Income Tax E-return Filing Or Organic Farming Or Biofertilizer Or Type Setting in Latex	3	100

VALUE AIDED COURSES (VAC) UNDER NEP – 2020

Note: The students will have to study one VAC course in each Semester-I, III, V & VI irrespective of their disciplines as reflected in the following table, vide University Letter No-3177/Acd. – I, Dated: 15. 07. 2025 & Letter No. 3993/Acd-I Dt: 02.09.2025.

The classes will be assigned to the teacher/faculty competent to teach the course by the Principal.

Sl. No.	Semester	Paper	Course title	Credit	Marks
Paper-I	I	PAPER I	Environmental Studies and Disaster Management	3	100
Paper-II	III	PAPER II	Ethics & Values	3	100
Paper-III	V	PAPER III	Understanding Odisha	3	100
Paper-IV	VI	PAPER IV	Creative Writing	3	100