

Course Structure of BSc in Economics and Data Science

YEAR – 1

First Semester				
Code	Course	Category of Course	L-T-P	Total Credit
	Introductory Economics	Core	4-0-0	4
	Mathematics for Data Science	Core	4-0-0	4
	Introduction to Programming(Python)	Core	3-0-2	4
	Multidisciplinary – I	MDC	3-0-0	3
	AEC-1	AEC	2-0-0	2
	SEC – I	SEC	3-0-0	3
	VAC – I	VAC	2-0-0	2
TOTAL				22

Second Semester				
Code	Course	Category of Course	L-T-P	Total Credit
	Elements of Economics	Core	4-0-0	4
	Statistics for Data Science	Core	4-0-0	4
	Data Structure & Algorithms	Core	3-0-2	4
	Multidisciplinary – II	MDC	3-0-0	3
	English/MIL/Foreign language	AEC	2-0-0	2
	SEC – II	SEC	3-0-0	3
	VAC – II	VAC	2-0-0	2
TOTAL				22

EXIT OPTION WITH CERTIFICATION. Such students who desire to exit after 1 year of study need to undertake a vocational course (4 credits)

YEAR – 2

Third Semester				
Code	Course	Category of Course	L-T-P	Total Credit
	Intermediate Economics	Core	4-0-0	4
	Introduction to Data Science	Core	3-0-0	4
	Data Base Management System	Core	3-0-2	4
	Multidisciplinary – III	MDC	3-0-0	3
	AEC – III	AEC	2-0-0	2
	SEC – III	SEC	3-0-0	3
TOTAL				20

Fourth Semester				
Code	Course	Category of Course	L-T-P	Total Credit
	Microeconomics Analysis	Core	4-0-0	4
	Macroeconomics Analysis	Core	4-0-0	4
	Machine Learning	Core	3-0-2	4
	AI Tools and its Application in Economics	Core	3-0-2	4
	*Monetary Economics	Elective	4-0-0	4
	*Urban Economics			
	AEC – IV	AEC	2-0-0	2
	VAC – III	VAC	2-0-0	2
TOTAL				24

EXIT OPTION WITH DIPLOMA. However, such students who desire to exit after 2 years of study need to undertake a vocational course (4 credits).

YEAR – 3

Fifth Semester				
Code	Course	Category of Course	L-T-P	Total Credit
	Public Finance and Policy	Core	4-0-0	4
	Economics of Growth and Development	Core	4-0-0	4
	*Econometric Methods	Elective	4-0-0	4
	*Health Care Economics			
	Deep Learning	Core	4-0-0	4
	Summer Internship	Internship	0-0-8	4
TOTAL				20

Sixth Semester				
Code	Course	Category of Course	L-T-P	Total Credit
	Contemporary issues in Indian Economy	Core	4-0-0	4
	Environmental Economics	Core	4-0-0	4
	*Behavioral Economics	Elective	4-0-0	4
	*Economics of Gender			
	Business Intelligence and Big data	Core	4-0-0	4
	Project (Data Science)	Core	0-0-8	4
TOTAL				20

After completion of third year the student will be awarded a **B Sc Degree in Economics and Data Science**. At the fourth year the student can specialize on **Data Science** or **Economics**.

(The fourth year courses will be incorporated in the coming semesters after Expert consultation.)