				Lecture Plan			
Name of the c	ollege: Governme	nt College of A	rts, Scienc	e and Commerce, Sanquelin	1- Goa		
Name of Faculty	1: Dr. Guruprasad I	R. Naik		Subject: Economics			
Paper code: ECC)-141			Program: FYBA SEC		Division: -	
Academic year:	2024 - 2025			Semester: I		Total Lectures: 16	
Expected Court 1. To fam		s with Basic sta	tistical con	cepts and their application usi	ng open-source soft	tware (spreadsheets and GRETL).	
	Learning Outcome: ailiarize the student		tistical con	cepts and their application usi	ng open-source soft	tware (spreadsheets and GRETL).	
Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
June	28/06/2024	29/06/2024	1	Module 1: Introduction to statistical concepts: Defining statistics, Reasons for Using Statistical Methods,		Power point presentation/ Smart board	• Gupta S.C. (2016): Fundamentals of Statistics, 7 t Edition, Himalaya Publishing House Pvt. Ltd, Mumbai

					 Adkins, L. C. (n.d.). Using gretl for Principles of Econometrics, 5th Edition Version 1.0. Gerald Keller (2017): Statistics for Management and Economics, 11th Edition, Cengage Learning, USA. Black, Ken. (2019). Business Statistics: For Contemporary Decision Making (10th). New York: West Publishing Company. David M. Levine, David F. Stephan, Timothy C. Krehbiel,
July	01/07/2024	06/07/24 1	Understanding Probability and Random variables	Power point presentation/ Smart board	 Gupta S.C. (2016): Fundamentals of Statistics, 7 th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai Adkins, L. C. (n.d.). Using gretl for Principles of Econometrics, 5th Edition Version 1.0. Gerald Keller (2017): Statistics for Management and Economics, 11th Edition, Cengage Learning, USA. Black, Ken. (2019). Business Statistics: For Contemporary Decision Making (10th). New York: West Publishing Company.

						• David M. Levine, David F. Stephan, Timothy C. Krehbiel,
July	08/07/2024	13/07/24	1	Population vs Sample, Descriptive and Inferential statistics, Sample Statistics and Population Parameters, Idea of statistical significance,	Power point presentation/ Smart board	 Gupta S.C. (2016): Fundamentals of Statistics, 7 th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai Adkins, L. C. (n.d.). Using gretl for Principles of Econometrics, 5th Edition Version 1.0. Gerald Keller (2017): Statistics for Management and Economics, 11th Edition, Cengage Learning, USA. Black, Ken. (2019). Business Statistics: For Contemporary Decision Making (10th). New York: West Publishing Company. David M. Levine, David F. Stephan, Timothy C. Krehbiel,
July	15/07/2024	20/07/24	1	Classification of data (variables): Quantitative (Discrete and Continuous) and Qualitative (categorical); Primary and Secondary data sources,	Power point presentation/ Smart board	 Gupta S.C. (2016): Fundamentals of Statistics, 7 th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai Adkins, L. C. (n.d.). Using gretl for Principles of Econometrics, 5th Edition Version 1.0. Gerald Keller (2017): Statistics for Management and Economics, 11th Edition, Cengage Learning, USA.

						 Black, Ken. (2019). Business Statistics: For Contemporary Decision Making (10th). New York: West Publishing Company. David M. Levine, David F. Stephan, Timothy C. Krehbiel,
July	22/07/2024	27/07/24	1	Data representation: Commonly used Tables and Graphs	ntation/ Smart board	 Gupta S.C. (2016): Fundamentals of Statistics, 7 th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai Adkins, L. C. (n.d.). Using gretl for Principles of Econometrics, 5th Edition Version 1.0. Gerald Keller (2017): Statistics for Management and Economics, 11th Edition, Cengage Learning, USA. Black, Ken. (2019). Business Statistics: For Contemporary Decision Making (10th). New York: West Publishing Company. David M. Levine, David F. Stephan, Timothy C. Krehbiel,
July	29/07/2024	03/08/24	1	Module 2: DescriptivePower point presentstatistics:Measures of CentralTendency: Mean, Medianand Mode);	ntation/ Smart board	 Gupta S.C. (2016): Fundamentals of Statistics, 7 th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai Adkins, L. C. (n.d.). Using gretl for Principles of Econometrics, 5th Edition

						 Version 1.0. Gerald Keller (2017): Statistics for Management and Economics, 11th Edition, Cengage Learning, USA. Black, Ken. (2019). Business Statistics: For Contemporary Decision Making (10th). New York: West Publishing Company. David M. Levine, David F. Stephan, Timothy C. Krehbiel,
July	05/08/2024	10/08/24	1	Meaning, Merits & Demerits, Manual calculations (Discrete and Continuous)	Power point presentation/ Smart board	 Gupta S.C. (2016): Fundamentals of Statistics, 7 th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai Adkins, L. C. (n.d.). Using gretl for Principles of Econometrics, 5th Edition Version 1.0. Gerald Keller (2017): Statistics for Management and Economics, 11th Edition, Cengage Learning, USA. Black, Ken. (2019). Business Statistics: For Contemporary Decision Making (10th). New York: West Publishing Company. David M. Levine, David F. Stephan, Timothy C. Krehbiel,

August	12/08/2024	17/08/24	1	Measures of Dispersion: Range, Inter Quartile Range, Semi Quartile Range, Mean Deviation, Variance and Standard Deviation.	Power p	oint presentation/ Smart board	 Gupta S.C. (2016): Fundamentals of Statistics, 7 th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai Adkins, L. C. (n.d.). Using gretl for Principles of Econometrics, 5th Edition Version 1.0. Gerald Keller (2017): Statistics for Management and Economics, 11th Edition, Cengage Learning, USA. Black, Ken. (2019). Business Statistics: For Contemporary Decision Making (10th). New York: West Publishing Company. David M. Levine, David F. Stephan, Timothy C. Krehbiel,
August	19/08/2024	24/08/24	1	Meaning, Merits & Demerits, Manual calculations (Discrete and Continuous)	Power p	oint presentation/ Smart board	 Gupta S.C. (2016): Fundamentals of Statistics, 7 th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai Adkins, L. C. (n.d.). Using gretl for Principles of Econometrics, 5th Edition Version 1.0. Gerald Keller (2017): Statistics for Management and Economics, 11th Edition, Cengage Learning, USA.

						 Black, Ken. (2019). Business Statistics: For Contemporary Decision Making (10th). New York: West Publishing Company. David M. Levine, David F. Stephan, Timothy C. Krehbiel,
August	26/08/2024	31/08/24	1	Measures of Symmetry: Skewness and Kurtosis.	Power point presentation/ Smart board	 Gupta S.C. (2016): Fundamentals of Statistics, 7 th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai Adkins, L. C. (n.d.). Using gretl for Principles of Econometrics, 5th Edition Version 1.0. Gerald Keller (2017): Statistics for Management and Economics, 11th Edition, Cengage Learning, USA. Black, Ken. (2019). Business Statistics: For Contemporary Decision Making (10th). New York: West Publishing Company. David M. Levine, David F. Stephan, Timothy C. Krehbiel,
September	02/09/2024	07/09/24	1	Meaning, types, and interpretations	Power point presentation/ Smart board	 Gupta S.C. (2016): Fundamentals of Statistics, 7 th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai Adkins, L. C. (n.d.). Using gretl for Principles of Econometrics, 5th Edition

						 Version 1.0. Gerald Keller (2017): Statistics for Management and Economics, 11th Edition, Cengage Learning, USA. Black, Ken. (2019). Business Statistics: For Contemporary Decision Making (10th). New York: West Publishing Company. David M. Levine, David F. Stephan, Timothy C. Krehbiel,
September	09/09/2024	14/09/24	1	Module 3 : Analysis using Spreadsheets and Gretl: Data Processing in spreadsheets: Primary data (cross- sectional): Cleaning,	Power point presentation/ Smart board	 Gupta S.C. (2016): Fundamentals of Statistics, 7 th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai Adkins, L. C. (n.d.). Using gretl for Principles of Econometrics, 5th Edition Version 1.0. Gerald Keller (2017): Statistics for Management and Economics, 11th Edition, Cengage Learning, USA. Black, Ken. (2019). Business Statistics: For Contemporary Decision Making (10th). New York: West Publishing Company. David M. Levine, David F. Stephan, Timothy C. Krehbiel,

September	16/09/2024	21/09/24	1	editing (re/naming variables, scale),		Power point presentation/ Smart board	 Gupta S.C. (2016): Fundamentals of Statistics, 7 th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai Adkins, L. C. (n.d.). Using gretl for Principles of Econometrics, 5th Edition Version 1.0. Gerald Keller (2017): Statistics for Management and Economics, 11th Edition, Cengage Learning, USA. Black, Ken. (2019). Business Statistics: For Contemporary Decision Making (10th). New York: West Publishing Company. David M. Levine, David F. Stephan, Timothy C. Krehbiel,
September	06/09/2024- 12/09/24	September		1			Stephan, Thiotity C. Ktenolei,
					GANES	H CHATURTHI BREAK	
September	23/09/2024	28/09/24	1	and coding (categorical: nominal and ordinal variables,		Power point presentation/ Smart board	 Gupta S.C. (2016): Fundamentals of Statistics, 7 th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai Adkins, L. C. (n.d.). Using gretl for Principles of Econometrics, 5th Edition Version 1.0. Gerald Keller (2017): Statistics for Management and Economics, 11th Edition,

						 Cengage Learning, USA. Black, Ken. (2019). Business Statistics: For Contemporary Decision Making (10th). New York: West Publishing Company. David M. Levine, David F. Stephan, Timothy C. Krehbiel,
September/October	30/09/2024	05/10/24	1	generating dummy variables)	Power point presentation/ Smart board	 Gupta S.C. (2016): Fundamentals of Statistics, 7 th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai Adkins, L. C. (n.d.). Using gretl for Principles of Econometrics, 5th Edition Version 1.0. Gerald Keller (2017): Statistics for Management and Economics, 11th Edition, Cengage Learning, USA. Black, Ken. (2019). Business Statistics: For Contemporary Decision Making (10th). New York: West Publishing Company. David M. Levine, David F. Stephan, Timothy C. Krehbiel,
October	07/10/2024	12/10/24	1	Data representation: Commonly used Tables (with interpretation)	Power point presentation/ Smart board	• Gupta S.C. (2016): Fundamentals of Statistics, 7 th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai

					 Adkins, L. C. (n.d.). Using gretl for Principles of Econometrics, 5th Edition Version 1.0. Gerald Keller (2017): Statistics for Management and Economics, 11th Edition, Cengage Learning, USA. Black, Ken. (2019). Business Statistics: For Contemporary Decision Making (10th). New York: West Publishing Company. David M. Levine, David F. Stephan, Timothy C. Krehbiel,
October	14/10/2024 19/10/24	1	Data representation: Commonly used Graphs (with interpretation)	Power point presentation/ Smart board	 Gupta S.C. (2016): Fundamentals of Statistics, 7 th Edition, Himalaya Publishing House Pvt. Ltd, Mumbai Adkins, L. C. (n.d.). Using gretl for Principles of Econometrics, 5th Edition Version 1.0. Gerald Keller (2017): Statistics for Management and Economics, 11th Edition, Cengage Learning, USA. Black, Ken. (2019). Business Statistics: For Contemporary Decision Making (10th). New York: West Publishing Company.

							• David M. Levine, David F. Stephan, Timothy C. Krehbiel,
October	21/10/2024	22/10/2024	00	-	-	-	-

*Assessment Rubrics

Component	Max Marks
ISA 1	10
ISA 2	-
Practical	-
Project	-
Semester End	
Exam	20