

Bachelor of Science in Applied Statistics and Analytics
School of Advanced Sciences

Programme Credit Structure		B.Sc.	B.Sc. Hons.	Programme Core (60+20 = 80 Credits)							
University Core Courses		29	41	Major (Applied Statistics)							
Programme Core Courses		60	80	MAT	Descriptive Statistics	4	0	4			
Programme Elective		24	32	MAT	Calculus	4	0	4			
University Elective		9	9	CSE	Python for data analysis	3	2	4			
Total Graded Credit Requirement		122	162	CSE	Database management & SQL	3	2	4			
University Core [29+12 = 41]				MAT	Discrete Mathematics	4	0	4			
Course Code	Course Title	T	P	C	MAT	Probability and distribution theory	4	0	4		
ENG1011	Foundation on Structures of English Language	3	0	3	MAT	Regression analysis -I	3	2	4		
ENG1014	Enhancing English Communication Skills	3	0	3	MAT	Data analysis using Excel and SPSS	3	2	4		
INL1101	Foundations of Hindi Language	2	0	2	MAT	Statistical Inference-I	3	2	4		
INL1002	Business Communication	2	0	2	MAT	Sampling techniques	3	2	4		
FRL1001	Basic French	2	0	2	MAT	Linear algebra	4	0	4		
FRL2001	Proficiency in French	2	0	2	CSE	Data structures for analytics	3	2	4		
FRL1004	Basic Spanish	2	0	2	MAT	Statistical Inference-II	3	2	4		
FRL2002	Proficiency in Spanish	2	0	2	MAT	Design of experiments	4	0	4		
FRL2004	Korean for Beginners I	2	0	2	MAT	Regression analysis-II	3	2	4		
FRL2008	Korean for Beginners II	2	0	2	MAT	Stochastic Processes	4	0	4		
FRL1005	German for Beginners	2	0	2	MAT	Time series analysis	3	2	4		
BAP	German for Advanced Learners	2	0	2	MAT	Statistical Quality Control	4	0	4		
LIB1113	Critical Reading and Writing	3	0	3	MAT	Multivariate data analysis	3	2	4		
PSY	Physical Education		P/F		MAT	Vital statistics	4	0	4		
Skill Enhancement Courses (9 Credits)				Programme Electives (24+8 = 32 Credits)							
PSYXXX	Social Psychology	3	0	3	Minor 1 (Mathematics)						
LIBXXX	Cyber security, Data Privacy and Cyber Laws	2	2	3	MAT	Modern Algebra	4	0	4		
STSXXX	Aptitude and reasoning skills	3	0	3	MAT	Ordinary and Partial Differential Equations with Applications	4	0	4		
XXXX	Leadership & Personality Development	2	0	2	MAT	Operations Research	3	2	4		
MGTXXX	Entrepreneurship for Data Professionals	2	0	2	MAT	Numerical Analysis	4	0	4		
Value Added Courses (8 Credits)				Minor 2 (Analytics)							
MATXXX	Introduction to computational biology	0	4	2	CSE	Introduction to Number theory and Cryptography	4	0	4		
MGT1001	Ethics and Values	2	0	2	CSE	Mathematical Finance	4	0	4		
CHY1002	Environmental Sciences		P/F		MAT	Fuzzy Sets and Applications	4	0	4		
LIB1023	Indian Studies	2	0	2	MAT	Mathematical Modelling	4	0	4		
HUM1013	Universal Human Values	2	0	2	CSE	Data Wrangling & Visualization	3	2	4		
CHYXX	Introduction to computer-aided drug design	2	0	2	CSE	Introduction to Machine Learning	3	2	4		
XXXX	design Statistics in sports	2	0	2	CSE	Deep Learning & Neural Networks	3	2	4		
XXXX	Cultural and heritage education	2	0	2	CSE	Big data Analytics	3	2	4		
Project (16 Credits)				University Electives (9+0+0 = 9 Credits)							
XXXX	Internship	0	4	4	CSE	NLP & text analytics	3	2	4		
XXXX	Dissertation	12	0	12	CSE	Image Analytics and Vision Systems	3	2	4		
	Co/Extra Curricular [Compulsory] NSS/ NCC	2	0	2	CSE	Cloud Computing for Analytics	3	0	3		
					CSE	Generative AI Fundamentals	3	0	3		
				Multidisciplinary courses which students are free to choose from courses offered by other schools/departments in the university. Engineering Sciences Humanities Social Sciences Liberal arts Economics Finance Management							