## LIBF

## BSc (Hons) Data Science

## Distance Learning

St FT	Semester FT PT I PT II		Module	Module Code	Credit Points	Type of Assessment
		1. Semester		LIBFEXDLBCSICS	15	Oral Assignment + Reflection Paper
Semester (Level 4)	Semester		Introduction to Programming with Python	LIBFEXDLBDSIPWP	15	Exam
	1. S.	ster	Mathematics: Analysis	LIBFEXDLBDSMFC	15	Exam
1. Sel	ter	2. Semester	Statistics - Probability and Descriptive Statistics	LIBFEXDLBDSSPDS-01	15	Exam
el 4)	2. Semester	3. Semester	Object Oriented and Functional Programming with Python	LIBFPDLBDSOOFPP	15	Portfolio
Semester (Level 4)			Data Quality and Data Wrangling	LIBFOARPDLBDSDQDW	15	Oral Assignment + Reflection Paper
semest	ster	4. Semester	Mathematics: Linear Algebra	LIBFEXDLBDSMFLA	15	Exam
2. 8	Semester	Sen	Statistics - Inferential Statistics	LIBFEXDLBDSSIS	15	Exam
(2)	4. Semester 3. 9	5. Semester	Introduction to Academic Work	LIBFAWDLBCSIAW	15	Advanced Workbook
er (Leve		Semi	Database Modeling and Database Systems	LIBFEXDLBCSDMDS	15	Exam
3. Semester (Level		6. Semester	Explorative Data Analysis and Visualization	LIBFAWDLBDSEDAV	15	Advanced Workbook
			Data Science Software Engineering	LIBFAWDLBDSDSSE	15	Advanced Workbook
el 5)	ter 5. Semester	8. 7. Semester	Machine Learning - Supervised Learning	LIBFWACSDLBDSMLSL	15	Written Assessment: Case Study
Semester (Level			Machine Learning - Unsupervised Learning and Feature Engineering	LIBFWACSDLBDSMLUSL	15	Written Assessment: Case Study
emest			Elective A1		15	
4. S			Elective A2		15	
(9)	Semester	ster	Neural Nets and Deep Learning	LIBFWAWADLBDSNNDL	15	Written Assessment: Written Assignment
Semester (Level 6)	6. S	9. Semester	Seminar: Ethical Considerations in Data Science	LIBFWAREDLBDSSECDS	15	Written Assessment: Research Essay
emeste	Semester	10. Semester	Elective B1		15	
5. S			Elective B2		15	
vel 6)	7.1	11. Semester	Elective C1		15	
Semester (Level	ster	Semi	Elective C2		15	
6. Semes	8. Semester	12. Semester	Bachelor Thesis	LIBFBTDLBBT	30	Bachelor Thesis
	Total	İ			360	

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FT: Full-Time, 36 months PT I: Part-Time I, 48 months PT II: Part-Time II, 72 months

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The sequence of the modules is to be strictly followed

Electives			
Elective A		Elective B	Elective C
Project: From Model to Production	Business Intelligence & Data Analytics	Business Intelligence	Advanced Data Analysis
Our least Duilled or Dustre March in COV		Project: Business Intelligence	Project: Data Analysis
Project: Build a Data Mart in SQL	Marketing & Sales	Applied Sales I	Online Marketing
Agile Project Management		Applied Sales II	Social Media Marketing
Neural Nets and Deep Learning	Supply chain management & Industry 4.0	Supply Chain Management I	Product Development in Industry 4.0
Seminar: Ethical Considerations in Data Science		Supply Chain Management II	Project: Smart Product Solutions
Seminar: Ethical Considerations in Data Science	Data Engineeing & Big Data	Big Data Technologies	Data Engineering
Internship I	Technologies	Cloud Computing	Project: Data Engineering
Internship II	Artificial Intelligence		Self-Driving Vehicles
		Project: Artificial Intelligence	Seminar: Current Topics and Trends in Self-Driving Technology
	Banking and Finance	Crypto and Blockchain	
		FinTech	

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- Electives: You can choose two elective modules from each elective area. You can freely choose these modules or follow our suggested combinations to stay in a specific subject area (only relevant for elective areas B and C). In total, a subject area consists of four elective modules (the exception being: Banking and Finance).