Data Science and Big Data technology professional training process (Bachelor of Engineering)

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第一	∸学期Semester	1

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	Course title	hours	credit
1	初级汉语听力	6.0	96.0
	Basic Chinese Listenia	ng	
2	初级汉语口语	6.0	96.0
	Basic Chinese Speakir	ng	-
3	中国概况	2.0	32.0
	Introduction to China	-	
		-	-
		14.0	224.0

第三学期Semester 3

9	线性代数	2.0	32.0
	Linear Algebra		
10	物理实验 A	1.0	16.0
	Physics Experiment A		
11	概率和统计	2.5	40.0
	Probability & Statistics	-	-
12	高等数学 B	5.0	80.0
	Advanced Mathematics B	1	-
13	体育 B	2.0	32.0
	Sports B	-	-
14	离散数学	2.0	32.0
	Discrete mathematics		
15	大学物理 A	3.0	48.0
	College Physics A	-	
		17.5	280.0
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第五学期Semester 5

24随机过程2.032.0Stochastic process25Python程序设计及应用2.032.0Python programming and application26数据可视化232Data visualization27大数据采集技术及应用2.03.0Big data collection technology and Application	7.7				
25Python程序设计及应用2.032.0Python programming and application26数据可视化232Data visualization27大数据采集技术及应用2.03.0Big data collection technology and	24	随机过程	2.0	32.0	
Python programming and application 26 数据可视化 2 32 Data visualization 27 大数据采集技术及应用 2.0 3.0 Big data collection technology and		Stochastic process			
26数据可视化232Data visualization27大数据采集技术及应用2.03.0Big data collection technology and	25	Python程序设计及应用	2.0	32.0	
Data visualization 27 大数据采集技术及应用 2.0 3.0 Big data collection technology and		Python programming and application			
27 大数据采集技术及应用 2.0 3.0 Big data collection technology and	26	6 数据可视化 2 32			
Big data collection technology and		Data visualization			
0	27	大数据采集技术及应用	2.0	3.0	
Application		Big data collection technology and			
		Application			
28 数据挖掘与分析技术 2.0 32.0	28	数据挖掘与分析技术	2.0	32.0	
Data mining and analysis technology		Data mining and analysis technology			

第二学期Semester 2

	Course title	hours	credit
4	大数据概论	2.0	32.0
	Introduction to big data	•	-
5	C语言	3.0	48.0
	C Programming Languages	-	-
6	高等数学 A	5.0	80.0
	Advanced Mathematics A	-	-
7	体育 A	2.0	32.0
	Sports A	-	=
8	雅思读写	4.0	64.0
	IELTS English		
		16.0	256.0

第四学期Semester 4

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国际学术交流英语	4.0	64.0
English for International Academic Com	municati	on
数据结构	2.0	32.0
Data Structure		
多元统计分析	2.0	32.0
Multivariate statistical analysis	-	-
应用统计与R语言	2.0	16.0
Applied statistics and R language		
大数据算法与设计	2.0	32.0
Big data algorithm and design	-	-
计算机网络	2.0	32.0
Computer Network		
大学物理B	2.0	32.0
College Physics B	-	-
物理实验 B	2.0	32.0
Physics Experiment B		
	18.0	272.0
	English for International Academic Com数据结构 Data Structure 多元统计分析 Multivariate statistical analysis 应用统计与R语言 Applied statistics and R language 大数据算法与设计 Big data algorithm and design 计算机网络 Computer Network 大学物理B College Physics B 物理实验 B	English for International Academic Communicati 数据结构 2.0 Data Structure 多元统计分析 2.0 Multivariate statistical analysis 应用统计与R语言 2.0 Applied statistics and R language 大数据算法与设计 2.0 Big data algorithm and design 计算机网络 2.0 Computer Network 大学物理B 2.0 College Physics B 物理实验 B 2.0 Physics Experiment B

第六学期Semester 6

31	Hadoop开发基础	2	32
	Basic of hadoop		
32	大数据平台技术与应用	2	32
	Big data platform technology and Application		
33	深度学习导论	2	32
	Introduction to deep learning		
34	Spark大数据技术与应用	2	32
	Spark and big data technology		
35	数据驱动与系统控制	2	32
	Data drive and system control	-	

29	信息科学基础	2.0	32.0
	Basis of information science		
30	数据库原理	2.0	32.0
	Database principle		
		14.0	195.0
	第七学期Semeste	r 7	-
37	人工智能	2	32
	Artificial intelligence		
38	大数据安全技术	2	32
	Big data security technology		
39	时间序列与数据流分析	2	32
	Time series and data flow analysis		
40	运筹学及算法	2	32
	Operations research and algorithm		
41	移动互联网数据挖掘	2	32
	Mobile internet data mining		
42	企业实训	1.0	16.0
	Corporate Training		
		11.0	176.0

36	数据建模	2	32
	Data modeling	-	
		12.0	192.0
第八学期Semester8			
43	毕业实习	12.0	192.0
	Graduation Practice	•	

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43	毕业实习	12.0	192.0
	Graduation Practice	-	-
44	毕业设计(论文)	15.0	240.0
	Graduation Thesis	•	•
		27.0	432.0