DR. A.P.J. ABDUL KALAM TECHNICAL UNIVERSITY LUCKNOW

B.Tech. 4th Year

Computer Science and Engineering (Artificial Intelligence and Machine Learning)

CURRICULUM STRUCTURE

SEMESTER- VII												
Sl. No.	Subject Codes	Subject	Periods			Evaluation Scheme			End Semester			Total	Credit
			L	T	P	CT	TA	Total	PS	TE	PE		
1	KHU701/KHU702	HSMC -1 / HSMC-2	3	0	0	30	20	50		100		150	3
2	Dept. Elective-IV	Departmental Elective-IV	3	0	0	30	20	50		100		150	3
3	Dept. Elective-V	Departmental Elective-V	3	0	0	30	20	50		100		150	3
4	KOE07X	Open Elective-II	3	0	0	30	20	50		100		150	3
5	KCS751A	Departmental Elective Lab**	0	0	2				25		25	50	1
6	KCS752	Mini Project or Internship Assessment*	0	0	2				50			50	1
7	KCS753	Project	0	0	8				150			150	4
8		MOOCs (Essential for Hons. Degree)											
		Total	12	0	12							850	18

*The Mini Project or internship (4 - 6 weeks) conducted during summer break after VI semester and will be assessed during VII semester.

SEMESTER- VIII												
Sl. No.	Subject Codes	Subject	Periods			Evaluation Scheme			End Semester			Total	Credit
			L	T	P	CT	TA	Total	PS	TE	PE		
1	KHU801/KHU802	HSMC-1/HSMC-2	3	0	0	30	20	50		100		150	3
2	KOE08X	Open Elective-III	3	0	0	30	20	50		100		150	3
3	KOE09X	Open Elective-IV	3	0	0	30	20	50		100		150	3
4	KCS851	Project	0	0	18				100		300	400	9
5		MOOCs (Essential for Hons. Degree)											
		Total	9	0	18							850	18

** Department may conduct one Lab of based on either Data Mining & Warehousing or Cloud Computing.

Departmental Elective-IV

1. KAI071   Optimization in Machine Learning
2. KCS072   Natural language processing
3. KAI073   Text Analytics and Natural Language Processing
4. KCS074   Cryptography and Network Security
5. KAI075   Data Warehousing and Data Mining
6. KAI076   Time series analysis and Forecasting
7. KAI077   Software Engineering

Departmental Elective-V

1. KAI078   Nature-Inspired Computing
2. KAI079   Distributed Computing System
3. KCS710   Quantum Computing
4. KCS711   Mobile Computing
5. KCS712   Internet of Things
6. KCS713   Cloud Computing
7. KCS714   Blockchain Architecture Design