Zakir Husain College of Engineering Technology, Aligarh Muslim University Aligarh

Course Structure: B.Tech. (Artificial Intelligence)
Valid for students admitted from year 2021 to 2022

Semester 3:

S.No.	Course Catag	Course No.	Course title	Contact Periods L	T	P	Credits	Marks Course-Work	Mid-Sem	End-Sem	Total
1	DC	AIC2020	Introduction to Artificial Intelligence	3	1	0	4	15	25	60	100
2	DC	AIC2040	Principles of Machine Learning	3	1	0	4	15	25	60	100
3	DC	AIC2060	Data Structure and Algorithm	3	1	0	4	15	25	60	100
4	DC	AIC2070	Digital Logic and System Design	3	1	0	4	15	25	60	100
5	DC	AIC2910	Data Structure Lab	0	1	2	2	60	0	40	100
6	BS	AMS2610	Higher Mathematics	3	1	0	4	15	25	60	100
7	ESA	ELA2110	Electronic Devices & Circuits	3	1	0	4	15	25	60	100
8	HM	EZH2910	Communication Skills Lab	0	1	2	2	60	0	40	100

TOTAL CREDITS: 28

Semester 4:

S.No.	Course Catag	Course No.	Course title	Contact Periods L	T	P	Credits	Marks Course-Work	Mid-Sem	End-Sem	Total
1	DC	AIC2130	Statistical Learning	3	1	0	4	15	25	60	100
2	DC	AIC2140	Design & Analysis of Algorithm	3	1	0	4	15	25	60	100
3	DC	AIC2150	AI Tools & Techniques	3	1	0	4	15	25	60	100
4	DC	AIC2930	Minor Project I	0	0	3	2	60		40	100
5	DC	AIC2940	Python Programming Laboratory	0	1	2	2	60		40	100
6	BS	AMS2630	Discrete Structures	3	1	0	4	15	25	60	100
7	ESA	ELA2410	Signals & Systems	3	1	0	4	15	25	60	100
8	ESA	ELA2900	Electronics Laboratory	0	1	2	2	60		40	100

TOTAL CREDITS: 26

Zakir Husain College of Engineering Technology, Aligarh Muslim University Aligarh

Course Structure: B.Tech. (Artificial Intelligence)
Valid for students admitted from year 2021 to 2022

Semester 5:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	DC	AIC3060	Artificial Neural Network	3	1	0	4	15	25	60	100
2	DC	AIC3070	AI System Design	3	1	0	4	15	25	60	100
3	DC	AIC3090	Microprocessor Theory & Applications	3	1	0	4	15	25	60	100
4	DC	AIC3100	Operating Systems	3	1	0	4	15	25	60	100
5	DC	AIC3930	Algorithms & Operating Systems Lab	0	1	2	2	60		40	100
6	DC	AIC3940	Machine Learning Lab	0	1	2	2	60		40	100
7	ESA	ELA3400	Communication Engineering	3	1	0	4	15	25	60	100
8	HM	MEH3450	Engineering Economy & Management	3	1	0	4	15	25	60	100

TOTAL CREDITS: **28**

Semester 6:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	DC	AIC3120	Database Management System	3	1	0	4	15	25	60	100
2	DC	AIC3130	Computer Networks	3	1	0	4	15	25	60	100
3	DC	AIC3140	Deep Learning	3	1	0	4	15	25	60	100
4	DC	AIC3950	Minor Project II	3	1	0	3	60		40	100
5	DC	AIC3970	Deep Learning Lab	3	1	0	2	60		40	100
6	DE		Departmental Elective-1				4	15	25	60	100
7	OE		Open Elective-1				4	15	25	60	100
8	HM		Elective Course under Humanities category				3	15	25	60	100

TOTAL CREDITS: **28**

Zakir Husain College of Engineering Technology, Aligarh Muslim University Aligarh

Course Structure: B.Tech. (Artificial Intelligence)
Valid for students admitted from year 2021 to 2022

Semester 7:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	DC	AIC4970	Advanced Artificial Intelligence Lab	0	1	2	2	60		40	100
2	DC	AIC4980	B.Tech. Project Part I	0	0	8	4	60		40	100
3	DE		Departmental Elective-2				4	15	25	60	100
4	DE		Departmental Elective-3				4	15	25	60	100
5	DE		Departmental Elective-4				4	15	25	60	100
6	DE		Departmental Elective-5				4	15	25	60	100
7	DE		Departmental Elective-6				4	15	25	60	100
8	OE		Open Elective-2				4	15	25	60	100

TOTAL CREDITS: 30

Semester 8:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	DC	AIC4990	B.Tech. Project Part II	0	0	12	6	60		40	100
2	DE		Departmental Elective-7				4	15	25	60	100
3	DE		Departmental Elective-8				4	15	25	60	100

TOTAL CREDITS: 14

Zakir Husain College of Engineering Technology, Aligarh Muslim University Aligarh

Course Structure: B.Tech. (Artificial Intelligence)
Valid for students admitted from year 2021 to 2022

List of Departmental Elective (DE) Courses:

S.No.	Crs. No.	Course title	S.No.	Crs. No.	Course title
1	AIE4370	Natural Language Processing			

SUMMARY:

Catagory Code	Category Name	II-IV Year Credits	First Year Credits	Total Credits
DC	Departmental Core	83	0	83
DE	Departmental Elective	32	0	32
BS	Basic Sciences	8	19	27
ESA	Engg. Science and Arts	14	24	38
OE	Open Elective	8	0	8
HM	Humanities	9	3	12
	TOTAL	154	46	200