Z.H. College of Engineering Technology, Aligarh Muslim University Aligarh

Course Structure: B.Tech. (Artificial Intelligence)
Valid for students admitted from year 2023 onwards

Semester 3:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	BS	AMS2610	Higher Mathematics	3	1	0	4	15	25	60	100
2	PC	AIC2020	Introduction to Artificial Intelligence	3	1	0	4	15	25	60	100
3	PC	AIC2060	Data Structure and Algorithm	3	1	0	4	15	25	60	100
4	PC	AIC2070	Digital Logic and System Design	3	1	0	4	15	25	60	100
5	ESA	ELA2110	Electronic Devices and Circuits	3	1	0	4	15	25	60	100
6	PC	AIC2120	Database Management System	3	1	0	4	15	25	60	100
7	PC	AIC2920	Artificial Intelligence Lab	0	1	2	2	60		40	100

TOTAL CREDITS: 26

Semester 4:

S.No.	Course Catag	Course No.	Course title	Contact Periods			Credits	Marks			Total
				L	T	P		Course-Work	Mid-Sem	End-Sem	
1	BS	AMS2630	Discrete Structures	3	1	0	4	15	25	60	100
2	PC	AIC2150	AI Tools & Techniques	3	1	0	4	15	25	60	100
3	PC	AIC2140	Design & Analysis of Algorithm	3	1	0	4	15	25	60	100
4	ESA	ELA2900	Electronics Lab	0	1	2	2	60		40	100
5	PC	AIC2041	Principles of Machine Learning	3	1	0	4	15	25	60	100
6	ESA	ELA2411	Fundamentals of Digital Signal Processing	3	1	0	4	15	25	60	100
7	PC	AIC2911	Data Structure Lab	0	1	2	2	60		40	100
8	PSI	AIP2920	Colloquium	0	2	0	2	60		40	100

TOTAL CREDITS: 26

Z.H. College of Engineering Technology, Aligarh Muslim University Aligarh

Course Structure: B.Tech. (Artificial Intelligence)
Valid for students admitted from year 2023 onwards

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	PC	AIC3070	AI System Design	3	1	0	4	15	25	60	100
2	PC	AIC3100	Operating Systems	3	1	0	4	15	25	60	100
3	PC	AIC3940	Machine Learning Lab	0	1	2	2	60		40	100
4	PC	AIC3091	Microprocessor Theory & Applications	3	0	0	3	15	25	60	100
5	HM	MEH3451	Engineering Economy & Management	3	0	0	3	15	25	60	100
6	ESA	ELA3401	Communication Systems	3	1	0	4	15	25	60	100
7	PSI	AIP3931	Minor Project-I	0	0	4	2	60		40	100
8	OE		Open Elective-1				3	15	25	60	100

TOTAL CREDITS: 25

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	PC	AIC3140	Deep Learning	3	1	0	4	15	25	60	100
2	PC	AIC3130	Computer Networks	3	1	0	4	15	25	60	100
3	PC	AIC3970	Deep Learning Lab	3	1	0	2	60		40	100
4	PC	AIC3171	Natural Language Processing	3	1	0	4	15	25	60	100
5	PC	AIC3980	Microprocessor & Embedded Systems Lab	0	1	2	2	60		40	100
6	PSI	AIP3951	Minor Project-II	0	0	4	2	60		40	100
7	OE		Open Elective-2				3	15	25	60	100
8	HM		Elective Course under Humanities category				3	15	25	60	100

TOTAL CREDITS: 24

Z.H. College of Engineering Technology, Aligarh Muslim University Aligarh

Course Structure: B.Tech. (Artificial Intelligence)
Valid for students admitted from year 2023 onwards

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	PC	AIC4970	Advanced Artificial Intelligence Lab	0	1	2	2	60		40	100
2	PC	AIC4251	Advanced Machine Learning	3	1	0	4	15	25	60	100
3	PSI	AIP4981	Project Pase-I	0	0	8	4	60		40	100
4	DE		Departmental Elective-1				3	15	25	60	100
5	DE		Departmental Elective-2				3	15	25	60	100
6	DE		Departmental Elective-3				3	15	25	60	100
7	DE		Departmental Elective-4				3	15	25	60	100

TOTAL CREDITS: 22

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	PSI	AIP4991	Project Pase-II	0	0	12	6	60		40	100
2	PSI	AIP4800	Industrial Training/Internship				2			100	100
3	DE		Departmental Elective-5				3	15	25	60	100
4	DE		Departmental Elective-6				3	15	25	60	100

TOTAL CREDITS: 14

Z.H. College of Engineering Technology, Aligarh Muslim University Aligarh

Course Structure: B.Tech. (Artificial Intelligence)
Valid for students admitted from year 2023 onwards

List of Departmental Elective (DE) Courses:

S.No.	Crs. No.	Course title	S.No.	Crs. No.	Course title

SUMMARY:

Catagory Code	Category Name	II-IV Year Credits	First Year Credits	Total Credits
DC	Departmental Core	67	0	67
DE	Departmental Elective	18	0	18
BS	Basic Sciences	8	19	27
ESA	Engg. Science and Arts	14	19	33
OE	Open Elective	6	0	6
HM	Humanities	6	5	11
PSI	Project, Seminar, Internship	18	0	18
	TOTAL	**137**	**43**	**180**