

**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	PC	AIC2022	Introduction to Artificial Intelligence	3	1	0	4	15	25	60	100
2	PC	AIC2062	Data Structure and Algorithm	3	1	0	4	15	25	60	100
3	PC	AIC2072	Digital Logic and System Design	3	1	0	4	15	25	60	100
4	PC	AIC2122	Database Management System	3	1	0	4	15	25	60	100
5	PC	AIC2922	Artificial Intelligence Lab	0	1	2	2	60		40	100
6	BS	AMS2612	Higher Mathematics	3	1	0	4	15	25	60	100
7	ESA	ELA2112	Electronic Devices & Circuits	3	1	0	4	15	25	60	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	PC	AIC2042	Principles of Machine Learning	3	1	0	4	15	25	60	100
2	PC	AIC2142	Design & Analysis of Algorithm	3	1	0	4	15	25	60	100
3	PC	AIC2152	AI Tools & Techniques	3	1	0	4	15	25	60	100
4	PC	AIC2912	Data Structure Lab	0	1	2	2	60		40	100
5	PSI	AIP2922	Colloquium	0	2	0	2	60		40	100
6	BS	AMS2632	Discrete Structures	3	1	0	4	15	25	60	100
7	ESA	ELA2412	Fundamentals of Digital Signal Processing	3	1	0	4	15	25	60	100
8	ESA	ELA2902	Electronics Laboratory	0	1	2	2	60		40	100

**TOTAL CREDITS: 26**

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**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	AIC3072	AI System Design	3	1	0	4	15	25	60	100
2	PC	AIC3092	Microprocessor Theory & Applications	3	0	0	3	15	25	60	100
3	PC	AIC3102	Operating Systems	3	1	0	4	15	25	60	100
4	PC	AIC3942	Machine Learning Lab	0	1	2	2	60		40	100
5	PSI	AIP3932	Minor Project-I	0	0	4	2	60		40	100
6	ESA	ELA3402	Communication Systems	3	1	0	4	15	25	60	100
7	HM	MEH3452	Engineering Economy & Management	3	0	0	3	15	25	60	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	AIC3132	Computer Networks	3	1	0	4	15	25	60	100
2	PC	AIC3142	Deep Learning	3	1	0	4	15	25	60	100
3	PC	AIC3172	Natural Language Processing	3	1	0	4	15	25	60	100
4	PC	AIC3972	Deep Learning Lab	3	1	0	2	60		40	100
5	PC	AIC3982	Microprocessor & Embedded Systems Lab	0	1	2	2	60		40	100
6	PSI	AIP3952	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**

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**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	AIC4252	Advanced Machine Learning	3	1	0	4	15	25	60	100
2	PC	AIC4972	Advanced Artificial Intelligence Lab	0	1	2	2	60		40	100
3	PSI	AIP4982	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	AIP4802	Industrial Training/Internship				2			100	100
2	PSI	AIP4992	Project Pase-II	0	0	12	6	60		40	100
3	DE		Departmental Elective-5				3	15	25	60	100
4	DE		Departmental Elective-6				3	15	25	60	100

**TOTAL CREDITS: 14**

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**List of Departmental Elective (DE) Courses:**

S.No.	Crs. No.	Course title	S.No.	Crs. No.	Course title
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**SUMMARY:**

Category 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
<b>TOTAL</b>		<b>137</b>	<b>43</b>	<b>180</b>