

R24 Course Structure - B.Tech CSE AIML Program																
Parent	Sub	Course Code	Level	Course Title	Abb	L	T	P	S	I	C	CH	PRE-REQ	S/NS	MOOCS	EVAL
Semester - 1																
FC	BSC	24PHY101	100	Engineering Physics	EPY											
FC	BSC	24CHE201	100	Environmental Chemistry & Engineering Biology*	ECB	3	0	0	0	0	3	3				
FC	ESC	24CSE102	100	Problem Solving and	PCP	3	0	0	0	0	3	3				
FC	BSC	24MAT103	100	Calculus	CAL	2	1	0	0	0	3	3				
UC	AEC	24ENG104	100	English for Skill En	ESE	2	0	0	0	0	2	2				
FC	ESC	24EEE105	200	Elements of Electr	EEE	3	0	0	0	0	3	3				
UC	AEC	24ENGL106	100	Oral Communicati	CS1	0	0	2	0	0	1	2				
FC	BSC	24PHYL107	100	Engineering Physics Lab[Eng Physics Comb]	EPL											
PC	SDD	24CSEL109	100	Fundamentals of V	WEB	0	0	4	0	0	2	4				
FC	ESC	24CSEL108	100	Problem Solving and	PCL	0	0	4	0	0	2	4				
FC	ESC	24CSEL207	100	IT Workshop	ITW	0	0	2	0	0	1	2				
UC	AUC	24MC110	100	Induction Program	IDP	1	0	0	0	0	0	1				
Total for Sem -1						14	1	12	0	0	20	27				
Semester - 2																
FC	BSC	24PHY101	100	Engineering Physics	EPY											ET
FC	BSC	24CHE201	100	Environmental Chemistry & Engineering Biology*	ECB	3	0	0	0	0	3	3				ET
FC	BSC	24MAT202	100	Discrete Mathema	DMS	3	1	0	0	0	4	4				ET
FC	ESC	24CSE203	100	Computer Organiz	COA	3	0	0	0	0	3	3				ET
FC	ESC	24CSEJ204	100	Data Structures th	DCP	2	0	4	0	0	4	6	PCP			ETP2
UC	ESC	24CSEL205	100	Programming thro	PPY	0	0	4	2	0	3	6				EPS
UC	AEC	24ENGL206	100	Oral Communicati	CS2	0	0	2	2	0	2	4				EPS
FC	BSC	24PHYL107	100	Engineering Physics Lab[Engg Physics Comb]	EPL											EP
PC	SDD	24CSEL109	100	Fundamentals of V	WEB	0	0	4	0	0	2	4				EPP
UC	HAS	24HASL207	100	Sustainability thro	SDT	0	0	0	2	0	1	2				
Total for Sem -2						11	1	14	6	0	22	32				
FC	RPI	24AMLI222	100	Social Internship	SIP	0	0	0	0	3	1	0				
Semester - 3																
FC	BSC	24MAT301	200	Linear Algebra	LAG	3	1	0	0	0	4	4				
PC	SDD	24CSEJ302	200	Automata and Con	ACD	3	0	2	0	0	4	5				
PC	SDD	24CSEJ303	200	Object Oriented Pr	OOP	2	0	4	0	0	4	6				
PC	SDD	24CSEJ304	200	Operating Systems	OPS	3	0	2	0	0	4	5				
PC	SDD	24CSEJ305	200	Design and Analys	DAA	3	0	2	0	0	4	5	DCP			
UC	SEC	24SEC306	100	Soft Skills 1 -Reaso	SS1	0	0	0	2	0	1	2				
UC	SEC	24SEC307	200	Competitive Progr	COP	0	0	0	2	0	1	2				
FC	AUC	24MC30X	100	Sports Bucket/Health and Wellness Bu		0	0	0	2	0	0	2		ü		
UC	HAS	24HASL308	100	Customer Discover	CUD	0	0	0	2	0	1	2	SDT			
Total for Sem -3						14	1	10	8	0	23	33				
Semester - 4																
FC	BSC	24MAT401	200	Probability and Sta	PST	3	1	0	0	0	4	4				
PC	SDD	24AMLI402	200	Artificial Intelligen	AIL	3	0	2	0	0	4	5				
PC	SDD	24AMLI403	200	Machine Learning	MLN	3	0	2	0	0	4	5	LAG			

PC	SDD	24CSEJ404	200	Database Management	DBS	3	0	2	0	0	4	5				
PC	SDC	24CSE405	200	Full Stack Application	FSD	0	0	2	2	0	2	4				
UC	SEC	24SEC406	100	Soft Skills 2 -Verbal	SS2	0	0	0	2	0	1	2				
UC	AUC	24MC40X	100	Professional Societies /Community Service		0	0	0	2	0	0	2			ü	
UC	HAS	24HASL408	200	Business Model Innovation	BMI	0	0	0	2	0	1	2	CUD			
Total for Sem -4						12	1	8	8	0	20	29				
FC	RPI	24AMLI444	200	Technical Writing	TIP	0	0	0	0	3	1	0				
Semester - 5																
PC	SDD	24CSEJ501	300	Computer Network	CNW	3	0	2	0	0	4	5				
PC	SDD	24AMLIJ502	300	Computer Vision through Open CV	CVO	3	0	2	0	0	4	5	PCP			
PC	SDD	24AMLIJ503	300	Natural Language Processing	NLP	3	0	2	0	0	4	5	LAG/PST			
PE	PE 1	Refer PEs		Program Elective 1*		3	0	0	2	0	4	5				
OE	OE 1	Refer OEs	100	Open Elective 1#		3	0	0	0	0	3	3				
UC	SEC	24SEC5X6	200	Soft Skills 3 Bucket			0	0	2	0	1	2				
UC	SEC	24SEC507	200	Code Challenge Activity	CAP	0	0	0	2	0	1	2				
UC	HAS	24HASL50X	200	Foreign Languages Bucket		0	0	2	0	0	1	2				
UC	HAS	24HASL508	300	Investor Readiness	IRV	0	0	0	2	0	1	2	BMI			
Total for Sem -5						15	0	8	8	0	23	31				
Semester - 6																
PC	SDD	24CSEJ601	200	Software Engineering	SEG	3	0	2	0	0	4	5				
PC	SDD	24AMLIJ602	400	Neural Networks and Deep Learning	NDL	3	0	2	0	0	4	5	MLN/LAG			
PE	PE 2	Refer PEs		Program Elective 2*		3	0	0	2	0	4	5				
PE	PE 3	Refer PEs		Program Elective 3*		3	0	0	2	0	4	5				
UC	AEC	24ENGL605	200	Communication Skills - III	CS3	0	0	2	2	0	2	4				
PC	SDC	24AMLS606	300	Cloud and Devops	CDE	0	0	2	2	0	2	4	FSD		ü	
UC	AUC	24MC607	100	Indian Constitution	INC	2	0	0	0	0	0	2			ü	
UC	HAS	24HASL608	300	Product Launch and Marketing	PLM	0	0	0	2	0	1	2	IRV			
Total for Sem -6						14	0	8	10	0	21	32				
FC	RPI	24AMLI666	200	Summer Internship	SUP	0	0	0	0	4	2	0				
Semester - 7																
PC	SDD	24AMLIJ701	400	Generative AI	GAI	3	0	2	0	0	4	5	NDL			
PE	PE 4	Refer PEs		Program Elective 4*		3	0	0	2	0	4	5				
OE	OE 2	Refer OEs	100	Open Elective 2#		3	0	0	0	0	3	3				
PC	SDC	24AMLS703	300	Cloud based AI/ML	CAM	0	0	2	2	0	2	4	CDE		ü	
UC	HAS	24MC704	100	Universal Human Values	UHV	2	0	0	0	0	0	2			ü	
UC	HAS	24HASL705	300	Post-Launch Growth	PVM	0	0	0	2	0	1	2	PLM			
FC	RPI	24AMLI777	300	Capstone Project - I	IN1	0	0	0	0	5	5	5				
Total for Sem -7						11	0	4	6	5	19	26				
Semester - 8																
OE	OE 3	Refer OEs	100	Open Elective 3#		3	0	0	0	0	3	3				
UC	AUC	24MC802	100	Environmental Studies	EVS	2	0	0	0	0	0	2			ü	
FC	RPI	24AMLI888	400	Capstone Project - II	IN2	0	0	0	0	10	10	10				
Total for Sem -8						5	0	0	0	10	13	15				
Total Credits and Contact Hours for B.Tech CSE AIML Program						96	4	64	46	25	165	225				
CREDITS DISTRIBUTION and SU vs AICTE vs UGC																
Category		Abbr	Sub Category	Abbr	Credits	Courses	Total	Cat vs Credits %			SU vs AICTE vs UGC					
			Ability Enhancement	AEC	7	4		Cat	Credits	%	Cat	SU	AICTE	UGC		
			Skill Enhancement	SEC	5	5		UC	19	12	HAS	19	10	AEC	8	

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