

KIET GROUP OF INSTITUTIONS
(An Autonomous Institution, Affiliated to AKTU, Lucknow, UP)

Approved by AICTE, New Delhi

Delhi-NCR, Ghaziabad-Meerut Road, Ghaziabad-201206

Information Technology (IT)

2nd Year

EVALUATION SCHEME

Effective from the Session: 2025-26

B.Tech 2nd Year (2024-2028 Batch)**B.Tech (IT) 3rd Sem**

S No.	Course Category (AICTE)	Course Category (UGC)	BOS	Course Code	Course Name	Type	Academic Learning (AL)			Continuous Internal Examination (CIE)			End Sem Examination (ESE)	Total Marks	Total Credits
							L	T	P	MSE	CA	TOTAL			
1	PC	Major (Core)	IT	IT301L	Database Systems	L	3	0	0	60	15	75	75	150	3
2	PC	Major (Core)	CS	CS301L	Object Oriented Programming using Java	L	3	0	0	60	15	75	75	150	3
3	BS	Major (Core)	ASH	MA105L	Probability and Statistics	L	3	0	0	60	15	75	75	150	3
4	MC	Value Added	ASH	HS109L	Constitution of India	L	2	0	0	25	-	25	25	-	NC
5	HS	AEC	ASH	HS110L	Aptitude-1	L	1	0	0	-	25	25	25	50	1
6	HS	AEC	ASH	HS111L	Soft Skills Essential-1	L	1	0	0	-	25	25	25	-	NC
Blended															
7	PC	Major (Core)	CSE	CS302B	Advance Data Structure	B	3	0	2	80	20	100	100	200	4
8	PC	Major (Core)	IT	IT107B	Artificial Intelligence Essentials	B	3	0	2	80	20	100	100	200	4
9	PE	Major (Core)/SEC	-	-	Professional Elective-I	B	3	0	2	80	20	100	100	200	4
Lab/Practical															
10	PC	Major (Core)	IT	IT301P	Database Systems Lab	P	0	0	2	-	25	25	25	50	1
11	PC	Major (Core)	CS	CS301P	Object Oriented Programming using Java Lab	P	0	0	2	-	25	25	25	50	1
12	PW	Summer internship	CSIT	IT105P	Social Internship Assessment	P	0	0	0	-	50	50	-	50	1
Total Hours : 32 hrs.							22	0	10					1250	25

B.Tech 2nd Year (2024-2028 Batch)**B. Tech (IT) 4th Sem**

S No.	Course Category (AICTE)	Course Category (UGC)	BOS	Course Code	Course Name	Type	Academic Learning (AL)			Continuous Internal Examination (CIE)			End Sem Examination (ESE)	Total Marks	Total Credits
							L	T	P	MSE	CA	TOTAL			
1	PC	Major (core)	CSE	CS401L	Design and Analysis of Algorithms	L	3	0	0	60	15	75	75	150	3
2	ES	Major (core)	IT	IT302L	Computer Networks	L	3	0	0	60	15	75	75	150	3
3	PC	Major (core)	CSE	CS208L	Web Technology	L	2	0	0	40	10	50	50	100	2
4	PC	Major (Core)	CSE	CS206L	Operating System	L	3	0	0	60	15	75	75	150	3
5	MC	Value Added	ASH	HS112L	Universal Human Values	L	3	0	0	60	15	75	75	150	3
6	HS	AEC	ASH	HS113L	Aptitude-2	L	1	0	0	-	25	25	25	50	1
7	HS	AEC	ASH	HS114L	Soft Skills Essential 2	L	1	0	0	-	25	25	25	-	NC
Blended															
8	PE	Major (Core)/SEC	-	-	Professional Elective-II	B	3	0	2	80	20	100	100	200	4
Lab/Practical															
9	PC	Major (core)	CSE(AI ML)	AI104P	Data Engineering Essentials	P	0	0	4	-	50	50	50	100	2
10	PC	Major (core)	CSE	CS401P	Design and Analysis of Algorithms Lab	P	0	0	2	-	25	25	25	50	1
11	ES	Major (core)	IT	IT302P	Computer Networks Lab	P	0	0	2	-	25	25	25	50	1
12	PC	Major (core)	CSE	CS208P	Web Technology Lab	P	0	0	2	-	25	25	25	50	1
13	PC	Major (Core)	CSIT	CS206P	Operating System Lab	P	0	0	2	-	25	25	25	50	1
Total Hours : 33 hrs.							19	0	14					1250	25

Professional Electives (PE)

S.No.	Course Type (PE)					
1	BOS	CSE	CSE	CSE(AI)	CSE(AI)	CSE(AI)
	PE I-(3 rd Sem)	DevOps & Version Control (CS304E)	UI and UX expert (CS307E)	AWS Cloud Foundation (AI103E)	AWS Cloud Foundation (AI103E)	AWS Cloud Foundation (AI103E)
2	BOS	CSE	CSE	CSE(AI)	CSE(AI)	IT
	PE II-(4 th Sem)	DevOps Automation (CS305E)	Backend: Node, Express & MongoDB (CS308E)	Generative AI Foundations & Applications (AI301E)	Foundations of Cloud Computing & Operations (AI302E)	Foundations of Web Development (IT303E)

HONORS DEGREE COURSES (20 Credits)

List of Globally Certified Courses					
<u>S.No</u>	Course Name	Offered By	Difficulty Level	Credits	Link
1	AWS Certified Cloud Practitioner (CLF-C02)	AWS	Foundational	4	https://aws.amazon.com/certification/
2	AWS Certified Developer – Associate (DVA-C02)	AWS	Associate	4	
3	AWS Certified Solutions Architect – Associate (SAA-C03)	AWS	Associate	4	
4	Cisco Certified Network Associate (CCNA)	Cisco	Associate	4	https://www.cisco.com/c/en/us/training-events
5	Red Hat Certified System Administrator (RHCSA) (EX200)	Red Hat	Associate	4	https://www.redhat.com/en/services/training-and-certification
6	Red Hat Certified Engineer (RHCE) (EX294)	Red Hat	Associate	4	
7	Microsoft Azure Fundamentals (AZ-900)	Microsoft	Foundational	4	https://learn.microsoft.com/en-us/credentials/
8	Microsoft Azure Administrator Associate (AZ-104)	Microsoft	Associate	4	
9	Associate Cloud Engineer	Google	Associate	4	https://cloud.google.com/certification
10	Professional Cloud Architect	Google	Advance	4	
11	Oracle Certified Associate (OCA)	Oracle	Associate	4	https://education.oracle.com/?utm_source=chatgpt.com
12	Oracle Certified Professional (OCP)	Oracle	Associate	4	
13	Oracle Certified Expert (OCE)	Oracle	Associate	4	
14	Oracle Certified Master (OCM)	Oracle	Associate	4	
15	Oracle Certified Specialist (OCS)	Oracle	Associate	4	

List of NPTEL Courses					
S.NO.	Course Name	Offered By	Duration	Credits	Link
1	Computer Networks And Internet Protocol	IIT Kharagpur	12 Weeks	4	https://onlinecourses.nptel.ac.in/noc25_cs15/preview
2	Data Analytics with Python	IIT Roorkee	12 Weeks	4	https://onlinecourses.nptel.ac.in/noc25_cs17/preview
3	DataBase Management System	IIT Kharagpur	8 Weeks	3	https://onlinecourses.nptel.ac.in/noc25_cs18/preview
4	Programming In Java	IIT Kharagpur	12 Weeks	4	https://onlinecourses.nptel.ac.in/noc25_cs57/preview
5	The Joy of Computing using Python	IIT Ropar	12 Weeks	4	https://onlinecourses.nptel.ac.in/noc25_cs69/preview
6	Theory of Computation	IIT Hyderabad	12 Weeks	4	https://onlinecourses.nptel.ac.in/noc25_cs70/preview
7	Cloud Computing	IIT Kharagpur	12 Weeks	4	https://onlinecourses.nptel.ac.in/noc25_cs11/preview
8	Deep Learning - IIT Ropar	IIT Ropar	12 Weeks	4	https://onlinecourses.nptel.ac.in/noc25_cs21/preview
9	Fundamentals of Object Oriented Programming	IIT Roorkee	12 Weeks	4	https://onlinecourses.nptel.ac.in/noc25_cs34/preview
10	Introduction to Machine Learning	IIT Madras	12 Weeks	4	https://onlinecourses.nptel.ac.in/noc25_cs46/preview
11	Introduction To Soft Computing	IIT Kharagpur	8 Weeks	3	https://onlinecourses.nptel.ac.in/noc25_cs48/preview
12	Problem Solving Through Programming In C	IIT Kharagpur	12 Weeks	4	https://onlinecourses.nptel.ac.in/noc25_cs56/preview