

Kaveri University
B.Tech. Computer Science & Engineering (Internet of Things)
Course Structure
Applicable from Academic Year 2026-2027

I Year

SEMESTER-I						
Sl. No.	Course Code	Course	L	T	P	Credits
3 WEEKS COMPULSORY INDUCTION PROGRAM						
1	26MA101BS	Mathematics–I(Calculus and Linear Algebra)	3	1	0	4
2	26PH102BS	Applied Physics	3	0	0	3
3	26CS103ES	Programming for Problem Solving	3	0	0	3
4	26ME104ES	Computer Aided Engineering Graphics	1	0	4	3
5	26EE105ES	Basic Electrical Engineering	2	0	0	2
6	26PH106BS	Applied Physics Lab	0	0	2	1
7	26CS107ES	Programming for Problem Solving Lab using C	0	0	2	1
8	26ME108ES	Engineering Workshop / Makers Lab	1	0	2	2
9	26EE109ES	Basic Electrical Engineering Lab	0	0	2	1
10	26PE01AU	Sports and Yoga	3 [^]	0	0	0
Total			13+3[^]	1	12	20

[^]represents related to Audit Course.

SEMESTER-II						
Sl. No.	Course Code	Course	L	T	P	Credits
1	26MA201BS	Mathematics–II (Ordinary Differential Equations and Vector Calculus)	3	1	0	4
2	26CH202BS	Engineering Chemistry	3	0	0	3
3	26EC203ES	Electronic Devices and Circuits	2	0	0	2
4	26IO204PC	Data Structures and Algorithms	3	0	0	3
5	26EN205HS	Communication Skills	1	0	0	1
6	26IO206PC	Data Structures and Algorithms Lab	0	0	2	1
7	26CH207BS	Engineering Chemistry Lab	0	0	2	1
8	26CS208ES	Python Programming Lab	0	1	2	2
9	26EN209HS	Communication Skills Lab	0	0	2	1
10	26MS210HS	Design Thinking	0	1	2	2
Total			12	3	10	20

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SEMESTER-III						
Sl. No.	Course Code	Course	L	T	P	Credits
1	26IO301PC	Digital Electronics	3	0	0	3
2	26IO302PC	Computer Organization and Architecture	3	0	0	3
3	26IO303PC	Operating Systems	3	0	0	3
4	26IO304PC	Discrete Mathematics	3	1	0	4
5	26IO305PC	Data Engineering for IoT	3	0	0	3
6	26MA306BS	Mathematics-III (Probability and Statistics)	3	1	0	4
7	26IO307PC	Digital Electronics Lab	0	0	2	1
8	26IO308PC	Operating Systems Lab	0	0	2	1
9	26EN03AU	Constitution of India	2 [^]	0	0	0
Total			18+2[^]	2	4	22

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SEMESTER-IV						
Sl. No.	Course Code	Course	L	T	P	Credits
1	26IO401PC	Database Management Systems	3	0	0	3
2	26IO402PC	Sensors and Devices	3	0	0	3
3	26IO403PC	Web Technologies	3	0	0	3
4	26IO404PC	Computer Networks	3	0	0	3
5	26IO405PC	Sensors and Devices Lab	0	0	2	1
6	26IO406PC	Database Management Systems Lab	0	0	2	1
7	26IO407PC	Web Technologies Lab	0	0	2	1
8	26IO408EEC	Minor Project	0	0	6	3
9	26MS409HS	Engineering Economics	3	0	0	3
10	26CS410ES	Drone Technology Workshop	1	0	2	2
Total			16	0	14	23

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SEMESTER-V						
Sl. No.	Course Code	Course	L	T	P	Credits
1	26IO501PC	Industrial IoT	3	0	0	3
2	26IO502PC	Microprocessors and Microcontrollers	3	0	0	3
3	26IO503PC	Machine Learning for IoT	3	0	0	3
4	26IO504PC	Embedded Programming and IoT Frameworks	3	0	0	3
5	26IO505PC	IoT Security	3	0	0	3
6	26IO506PC	Microprocessors and Microcontrollers Lab	0	0	2	1
7	26EN507HS	Advanced Communication Skills lab	0	0	2	1
8	26IO508PC	Industrial IoT and Embedded Programming Lab	0	0	2	1
9	26IO509PC	Machine Learning for IoT Lab	0	0	2	1
10	26CH02AU	Environmental Science	2 [^]	0	0	0
Total			15+2[^]	0	8	19

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SEMESTER-VI						
Sl. No.	Course Code	Course	L	T	P	Credits
1	26IO601PC	IoT Communication Protocols	3	0	0	3
2	26IO602PC	IoT Systems Design and Architecture	3	0	0	3
3	26IO61XPE	Professional Elective-I	3	0	0	3
4	26IO61XOE	Open Elective-I	3	0	0	3
5	26IO603PC	IoT Communication Protocols Lab	0	0	2	1
6	26IO604EEC	Industrial Oriented Mini Project/Internship/Skill Development Course (Big data-Spark)	0	0	12	6
Total			12	0	14	19

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SEMESTER-VII						
Sl. No.	Course Code	Course	L	T	P	Credits
1	26IO701PC	Real-Time Operating Systems	3	0	0	3
2	26IO702PC	Cloud and Edge Computing	3	0	0	3
3	26IO703PC	Artificial Intelligence of Things(A IoT)	3	0	0	3
4	26IO72XPE	Professional Elective-II	3	0	0	3
5	26IO73XPE	Professional Elective-III	3	0	0	3
6	29IO72XOE	Open Elective-II	3	0	0	3
7	26EN704HS	Professional Practice, Law and Ethics	2	0	0	2
8	26IO705EEC	Capstone Project Stage-I	0	0	4	2
9	26EC05AU	Digital Twin and Simulation	1 [^]	0	2 [^]	0
Total			20+1[^]	0	4+2[^]	22

[^]represents related to Audit Course.

SEMESTER-VIII						
Sl. No.	Course Code	Course	L	T	P	Credits
1	26IO801PC	IoT Data Analytics	3	0	0	3
2	26IO84XPE	Professional Elective- IV	3	0	0	3
3	26IO83XOE	Open Elective–III	3	0	0	3
4	26IO802EEC	Project Stage–II including Seminar	0	0	20	10
5	26MS06AU	Intellectual Property Rights	3 [^]	0	0	0
Total			9+3[^]	0	20	19

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