

Kaveri University
B.Tech. Mechatronics
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/Maker 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	26CS204ES	Data Structures and Algorithms	3	0	0	3
5	26EN205HS	Communication Skills	2	0	0	2
6	26ME206PC	Engineering Mechanics	3	0	0	3
7	26CH207BS	Engineering Chemistry Lab	0	0	2	1
8	26CS208ES	Data Structures and Algorithms Lab	0	0	2	1
9	26EN209HS	Communication Skills Lab	0	0	2	1
10	26MS210HS	Design Thinking	0	1	2	2
Total			16	2	8	22

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II Year

SEMESTER-III						
Sl. No.	Course Code	Course Title	L	T	P	Credits
1	26ME301PC	Mechanics of Solids	3	0	0	3
2	26EC302ES	Analog and Digital Electronics	3	0	0	3
3	26CS303ES	Fundamentals of Python Programming	3	0	0	3
4	26EC304PC	Digital Logic Design	3	0	0	3
5	26MT305PC	Fluid Mechanics and Thermal Systems	3	1	0	4
6	26MA306BS	Mathematics-III(Probability and Statistics)	3	1	0	4
7	26EC307ES	Analog and Digital Electronics Lab	0	0	2	1
8	26CS308ES	Fundamentals of Python Programming Lab	0	1	2	1
9	26EN03AU	Constitution of India	2	0	0	0
Total			18+2[^]	3	4	22

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SEMESTER-IV						
Sl. No.	Course Code	Course Title	L	T	P	Credits
1	26EC401PC	Control Systems Engineering	3	0	0	3
2	26MT402PC	Kinematics and Dynamics of Machines	3	0	0	3
3	26EC403PC	Embedded Systems	3	0	0	3
4	26EC404PC	Microcontrollers and Interfacing	3	0	0	3
5	26MT405PC	Machine Learning for Mechatronics	3	0	0	3
6	26EC406PC	Control Systems Lab	0	0	2	1
7	26MT407PC	Machine Learning for Mechatronics Lab	0	0	2	1
8	26EC408PC	Microcontrollers and Embedded Systems Lab	0	0	2	1
9	26MT409EEC	Minor Project	0	0	6	3
10	26CH02AU	Environmental Science	2 [^]	0	0	0
Total			15+2[^]	0	12	21

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III Year

SEMESTER-V						
Sl. No.	Course Code	Course Title	L	T	P	Credits
1	26EE501ES	Electric Machines and Drives	3	0	0	3
2	26ME502PC	Machine Design	3	0	0	3
3	26ME503PC	Manufacturing and CNC Technology	3	0	0	3
4	26ME504PC	Motion Control and Drives	3	0	0	3
5	26MT505PC	Industrial Automation and IIoT	3	0	0	3
6	26MT506PC	Industrial Automation and IIoT Lab	0	0	2	1
7	26ME507PC	3D Printing and CNC Lab	0	0	4	2
8	26CS508HS	Introduction to Drone Technology	1	0	2	2
Total			16	0	8	20

SEMESTER-VI						
Sl. No.	Course Code	Course Title	L	T	P	Credits
1	26RA601PC	Robotics Engineering and ROS	3	0	0	3
2	26MT602PC	Computer Vision	3	0	0	3
3	26EC603PC	Signals and Sensor Processing	3	0	0	3
4	26MT604PC	Computer Vision Lab	0	0	2	1
5	26RA605PC	Robotics Lab	0	0	2	1
6	26MT61XPE	Professional Elective-I	3	0	0	3
7	26MT606EEC	Industry/Research Lab Internship	--	--	12	6
Total			12	0	16	20

Internship options	Alternate options
<ul style="list-style-type: none"> • With in India or Abroad (MITACS/DAAD/ Any other aligned with GOI schemes) • To enhance hands-on skills (As per NEP- 2020) • Refer Appendix – IV for some suggested Internships. 	<ul style="list-style-type: none"> • Alternatively, Courses can also be offered from Open Electives/Professional Electives • Two Course of 3 credits each and one Major project for 10 credits. • Students may opt for a virtual internship along with courses.

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IV Year

SEMESTER-VII						
S. No.	Course Code	Course	L	T	P	Credits
1	26MT701PC	Mechatronic System Design	3	0	0	3
2	26MT72XPE	Professional Elective – II	3	0	0	3
3	26MT73XPE	Professional Elective – III	3	0	0	3
4	26MT71XOE	Open Elective – I	3	0	0	3
5	26MT702PC	Mechatronics Integration Lab	0	0	2	1
6	26MS703HS	Engineering Economics	3	0	0	3
7	26EN704HS	Professional Practice, Law and Ethics	0	0	4	2
8	26MT705EEC	Capstone Project Phase –I and Seminar	0	0	4	2
9	26EC05AU	Digital Twin and Simulation	1	0	2	0
Total			15+1[^]	0	10+2[^]	20

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SEMESTER-VIII						
S. No.	Course Code	Course	L	T	P	Credits
1	26MT84XPE	Professional Elective – IV	3	0	0	3
2	26MT82XOE	Open Elective-II	3	0	0	3
3	26MT83XOE	Open Elective – III	3	0	0	3
4	26MT801EEC	Capstone Project Phase-II	0	0	20	10
6	26MS06AU	Intellectual Property Rights	3	0	0	0
Total			9+3[^]	0	20	19

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