Indira Gandhi Delhi Technical University for Women
(Established by Govt. of Delhi vide Act 09 of 2012)
Kashmere Gate, Delhi-110006

B.Tech. Teaching Scheme

CSE, CSE -AI, ECE, ECE-AI, IT, AI&ML, MAE/DMAM

(Second Year)

Academic Session: 2025-26

B.Tech. – Computer Science and Engineering
Third Semester

S No	Type of Course	Subject	L-T-P	Code	Credits
1.	Basic Sciences	Discrete Mathematics	3-0-0	BAS 201	3
2.	DCC	Software Engineering	3-0-2	BIT 205	4
3.	DCC	Design and Analysis of Algorithm	3-0-2	BCS 201	4
4.	Interdisciplinary	Fundamental of Analog & Digital Electronics	3-0-2/ 3-1-0/ 4-0-0	BEC 207	4
		Semiconductor Technology		BEC 208	
		Operations Management		BMA 215	
		Ergonomic Design		BMA 216	
		Measurement and Metrology		BMA 217	
		Solar Energy Technology		BMA 218	
		Industrial Waste Water Treatment		BMA 219	
5.	AEC/VAC	IKS/UHV	2-0-0/ 1-0-2	AEC 201	2
6.	SEC	Introduction to Internet of Things	2-0-4	BCS 202	4
7.	Internship	Internship	0-0-2	BCS 250	1
		Total			**22**

Fourth Semester

S No	Type of Course	Subject	L-T-P	Code	Credits
1.	DCC	Database Management Systems	3-0-2	BAI 201	4
2.	DCC	Computer Organization and Architecture	3-0-2	BCS 203	4
3.	DCC	Operating Systems	3-0-2	BIT 204	4
4.	DEC	Data Communication and Computer Networks	3-0-2/ 3-1-0/ 4-0-0	BCS 204	4
		Information Theory and Coding		BEC 212	
		Statistical Modeling		BIT 206	
		Data Mining and Data Warehouse		BAI 204	
5.	AEC/VAC	IKS/UHV	2-0-0/ 1-0-2	AEC 202	2
6.	SEC	Advanced IoT and Real World Applications	2-0-4	BCS 205	4
		Total			**22**

B.Tech. – Computer Science and Engineering (Artificial Intelligence) **Third Semester**
S No	**Type of Course**	**Subject**	**L-T-P**	**Code**	**Credits**
1.	Basic Sciences	Discrete Mathematics	3-0-0	BAS 201	3
2.	DCC	Database Management Systems	3-0-2	BAI 201	4
3.	DCC	Artificial Intelligence	3-0-2	BAI 202	4
4.	Interdisciplinary	Fundamental of Analog & Digital Electronics	3-0-2/ 3-1-0/ 4-0-0	BEC 207	4
		Semiconductor Technology		BEC 208	
		Computer Organization and Architecture		BCS 203	
		Operations Management		BMA 215	
		Ergonomic Design		BMA 216	
		Measurement and Metrology		BMA 217	
		Solar Energy Technology		BMA 218	
		Industrial Waste Water Treatment		BMA 219	
5.	AEC/VAC	IKS/UHV	2-0-0/ 1-0-2	AEC 201	2
6.	SEC	Object Oriented Programming	3-0-2	BIT 202	4
7.	Internship	Internship	0-0-2	BAI 250	1
		Total			**22**

Fourth Semester
S No	**Type of Course**	**Subject**	**L-T-P**	**Code**	**Credits**
1.	DCC	Design and Analysis of Algorithms	3-0-2	BCS 201	4
2.	DCC	Computer Networks	3-0-2	BAI 203	4
3.	DCC	Operating Systems	3-0-2	BIT 204	4
4.	DEC	Software Engineering	3-0-2/ 3-1-0/ 4-0-0	BIT 205	4
		Cloud Computing		BIT 207	
		Optimization Techniques and Decision Making		BAS 202	
		Statistical Modeling		BIT 206	
5.	AEC/VAC	IKS/UHV	2-0-0/ 1-0-2	AEC 202	2
6.	SEC	Open Source Technologies	2-0-4	BIT 203	4
		Total			**22**

S No	Type of Course	Subject	L-T-P	Code	Credits

B.Tech. – Electronics & Communication Engineering
Third Semester

S No	Type of Course	Subject	L-T-P	Code	Credits
1.	Basic Sciences	Numerical Techniques for Engineers	3-0-0	BAS 203	3
2.	DCC	Digital System Design	3-0-2	BEC 201	4
3.	DCC	Analog Communication Systems	3-0-2	BEC 202	4
4.	Interdisciplinary	Data Structures	3-0-2/ 3-1-0/ 4-0-0	BCS 103	4
		Object Oriented Programming		BIT 202	
		Data Base Management Systems		BAI 201	
		Operations Management		BMA 215	
		Ergonomic Design		BMA 216	
		Measurement and Metrology		BMA 217	
		Solar Energy Technology		BMA 218	
		Industrial Waste Water Treatment		BMA 219	
5.	AEC/VAC	IKS/UHV	2-0-0/ 1-0-2	AEC 201	2
6.	SEC I	Electronics Circuit Simulation Workshop	1-0-2	BEC 203	2
7.	SEC II	Advanced Electronic Workshop	1-0-2	BEC 204	2
8.	Internship	Internship	0-0-2	BEC 250	1
		Total			**22**

Fourth Semester

S No	Type of Course	Subject	L-T-P	Code	Credits
1.	DCC	Analog Electronics	3-0-2	BEC 206	4
2.	DCC	Electromagnetic Field Theory & Antenna	3-0-2	BEC 209	4
3.	DCC	Digital Communication Systems	3-0-2	BEC 210	4
4.	DCC	Control Systems	3-0-2	BEC 211	4
5.	DEC	Microprocessors & Microcontrollers	3-0-2/ 3-1-0/ 4-0-0	BEC 213	4
		Electrical Measurement & Instrumentation		BEC 214	
		Electrical Machines		BEC 215	
		Sensors and Actuators		BEC 216	
6.	AEC/VAC	IKS/UHV	2-0-0/ 1-0-2	AEC 202	2
		Total			**22**

		B.Tech. – Electronics & Communication Engineering (Artificial Intelligence) Third Semester			
S No	**Type of Course**	**Subject**	**L-T-P**	**Code**	**Credits**
1.	Basic Sciences	Numerical Techniques for Engineers	3-0-0	BAS 203	3
2.	DCC	Analog & Digital Electronics	3-0-2	BEC 205	4
3.	DCC	Data Structures and Algorithm	3-0-2	BIT 201	4
4.	Interdisciplinary	Object Oriented Programming	3-0-2/ 3-1-0/ 4-0-0	BIT 202	4
		Operations Management		BMA 215	
		Ergonomic Design		BMA 216	
		Measurement and Metrology		BMA 217	
		Solar Energy Technology		BMA 218	
		Industrial Waste Water Treatment		BMA 219	
5.	AEC/VAC	IKS/UHV	2-0-0/ 1-0-2	AEC 201	2
6.	SEC I	Electronics Circuit Simulation Workshop	1-0-2	BEC 203	2
7.	SEC II	Advanced Electronic Workshop	1-0-2	BEC 204	2
8.	Internship	Internship	0-0-2	BEC 250	1
		Total			**22**

		Fourth Semester			
S No	**Type of Course**	**Subject**	**L-T-P**	**Code**	**Credits**
1.	DCC	Analog Communication Systems	3-0-2	BEC 202	4
2.	DCC	Computer Organization and Architecture	3-0-2	BCS 203	4
3.	DCC	Artificial Intelligence	3-0-2	BAI 202	4
4.	DCC	Design and Analysis of Algorithms	3-0-2	BCS 201	4
5.	DEC	Electromagnetic Field Theory & Antenna	3-0-2/ 3-1-0/ 4-0-0	BEC 209	4
		Database Management System		BAI 201	
		Information Theory and Coding		BEC 212	
		Sensors and Actuators		BEC 216	
6.	AEC/VAC	IKS/UHV	2-0-0/ 1-0-2	AEC 202	2
		Total			**22**

B.Tech. – Information Technology **Third Semester**						

S No	Type of Course	Subject	L-T-P	Code	Credits
1.	Basic Sciences	Discrete Mathematics	3-0-0	BAS 201	3
2.	DCC	Data Structures and Algorithm	3-0-2	BIT 201	4
3.	DCC	Database Management Systems	3-0-2	BAI 201	4
4.	Interdisciplinary	Fundamental of Analog & Digital Electronics	3-0-2/ 3-1-0/ 4-0-0	BEC 207	4
		Semiconductor Technology		BEC 208	
		Computer Organization and Architecture		BCS 203	
		Operations Management		BMA 215	
		Ergonomic Design		BMA 216	
		Measurement and Metrology		BMA 217	
		Solar Energy Technology		BMA 218	
		Industrial Waste Water Treatment		BMA 219	
5.	AEC/VAC	IKS/UHV	2-0-0/ 1-0-2	AEC 201	2
6.	SEC	Open Source Technologies	2-0-4	BIT 203	4
7.	Internship	Internship	0-0-2	BIT 250	1
		Total			**22**

Fourth Semester					

S No	Type of Course	Subject	L-T-P	Code	Credits
1.	DCC	Design and Analysis of Algorithms	3-0-2	BCS 201	4
2.	DCC	Operating Systems	3-0-2	BIT 204	4
3.	DCC	Software Engineering	3-0-2	BIT 205	4
4.	DEC	Statistical Modeling	3-0-2/ 3-1-0/ 4-0-0	BIT 206	4
		Cloud Computing		BIT 207	
		Data Mining and Data Warehouse		BAI 204	
5.	AEC/VAC	IKS/UHV	2-0-0/ 1-0-2	AEC 202	2
6.	SEC	Fundamentals of Devops	2-0-4	BIT 208	4
		Total			**22**

B.Tech. – Artificial Intelligence & Machine Learning **Third Semester**

S No	Type of Course	Subject	L-T-P	Code	Credits
1.	Basic Sciences	Discrete Mathematics	3-0-0	BAS 201	3
2.	DCC	Data Structures and Algorithm	3-0-2	BIT 201	4
3.	DCC	Database Management Systems	3-0-2	BAI 201	4
4.	Interdisciplinary	Fundamental of Analog & Digital Electronics	3-0-2/ 3-1-0/ 4-0-0	BEC 207	4
		Semiconductor Technology		BEC 208	
		Computer Organization and Architecture		BCS 203	
		Operations Management		BMA 215	
		Ergonomic Design		BMA 216	
		Measurement and Metrology		BMA 217	
		Solar Energy Technology		BMA 218	
		Industrial Waste Water Treatment		BMA 219	
5.	AEC/VAC	IKS/UHV	2-0-0/ 1-0-2	AEC 201	2
6.	SEC	Open Source Technologies	2-0-4	BIT 203	4
7.	Internship	Internship	0-0-2	BAM 250	1
		Total			**22**

Fourth Semester

S No	Type of Course	Subject	L-T-P	Code	Credits
1.	DCC	Design and Analysis of Algorithms	3-0-2	BCS 201	4
2.	DCC	Operating Systems	3-0-2	BIT 204	4
3.	DCC	Artificial Intelligence	3-0-2	BAI 202	4
4.	DEC	Cloud Computing	3-0-2/ 3-1-0/ 4-0-0	BIT 207	4
		Statistical Modeling		BIT 206	
		Data Mining and Data Warehouse		BAI 204	
5.	AEC/VAC	IKS/UHV	2-0-0/ 1-0-2	AEC 202	2
6.	SEC	Fundamentals of Devops	2-0-4	BIT 208	4
		Total			**22**

B.Tech. – Mechanical and Automation Engineering/DMAM
Third Semester

S No	Type of Course	Subject	L-T-P	Code	Credits
1.	Basic Sciences	Numerical Techniques for Engineers	2-0-2	BAS 203	3
2.	DCC	Production Technology - I	2-0-2	BMA 201	3
3.	DCC	Engineering Materials	2-0-2	BMA 202	3
4.	DCC	Thermal Engineering - I	2-0-2	BMA 203	3
5.	DCC	Machine Drawing Lab	0-0-2	BMA 204	1
6.	Interdisciplinary	Fundamental of Analog & Digital Electronics	3-0-2/ 3-1-0/ 4-0-0	BEC 207	4
		Semiconductor Technology		BEC 208	
		Data Structures		BCS 103	
		Object Oriented Programming		BIT 202	
		Database Management Systems		BAI 201	
		Computer Organization and Architecture		BCS 203	
7.	AEC/VAC	IKS/UHV	2-0-0/ 1-0-2	AEC 201	2
8.	SEC	Robotics Lab	1-0-2	BMA 205	2
9.	Internship	Internship	0-0-2	BMA 250	1
		Total			**22**

Fourth Semester

S No	Type of Course	Subject	L-T-P	Code	Credits
1.	DCC	Thermal Engineering - II	2-0-2	BMA 206	3
2.	DCC	Production Technology - II	2-0-2	BMA 207	3
3.	DCC	Theory of Machines	2-0-2	BMA 208	3
4.	DCC	Fluid Mechanics and Hydraulic Machines	2-0-2	BMA 209	3
5.	DCC	Strength of Materials	2-0-2	BMA 210	3
6.	DEC	Logistics & Supply Chain Management	3-0-0/ 2-0-2	BMA 211	3
		Refrigeration and Air-Conditioning		BMA 212	
		Introduction to Autonomous Mobile Robots		BMA 213	
		Fire Fighting and Life Saving Appliances		BMA 214	
7.	AEC/VAC	IKS/UHV	2-0-0/ 1-0-2	AEC 202	2
8.	SEC	IoT Lab	1-0-2	BMA 221	2
		Total			**22**