

Course Curriculum

M. Tech

M.Tech. IT- Machine Learning and Intelligent Systems (MLIS)

Semester 1					Total Credit: 18
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Mathematics for IT	IT4001	PCC	4	3-0-2-0
2	Advanced Programming Practices	IT4002	PCC	4	2-0-4-0
3	Introduction to Machine Learning	IT4003	PCC	4	3-0-2-0
4	Image and Video Processing	IT4004	PCC	4	3-0-2-0
5	Research Methodology & IPR	AS4100	ELC	2	2-0-0-0
Total				18	13-0-10-0
					23

Semester 2					Total Credit: 17
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Deep Learning	IT4005	PCC	4	3-0-2-0
2	Probabilistic Machine Learning and Graphical Model	IT4006	PCC	4	3-0-2-0
3	Elective - 1	IT5501-IT5599	PEC	3	3-0-0-0
4	Project	IT5610	ELC	4	0-1-6-0
5	HSMC	MS1102-MS1110	HSMC	2	2-0-0-0
Total				17	11-1-10-0
					22

Exit: After successful completion of one year (first two semesters), students may get **PG Diploma**. They need to earn 6 credits additional, in summer, before exit.

Semester 3					Total Credit: 16
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Optimization	IT4007	PCC	3	3-0-0-0
2	Elective – 2	IT5501-IT5599	PEC	3	3-0-0-0
3	Elective - 3	IT5501-IT5599	OEC	3	3-0-0-0
4	Thesis- Part 1	IT6001	ELC	7	0-0-14-0
Total				16	09-0-14-0
					23

Semester 4					Total Credit: 15
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Thesis- Part 2	IT6002	ELC	15	0-2-26-0
Total				15	0-2-26-0
					28

“Applicable with effect from 2023 admitted batch and onwards”

M.Tech-PhD. IT- Machine Learning and Intelligent Systems (MLIS)

Semester 1					Total Credit: 20
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Mathematics for IT	IT4001	PCC	4	3-0-2-0
2	Advanced Programming Practices	IT4002	PCC	4	2-0-4-0
3	Introduction to Machine Learning	IT4003	PCC	4	3-0-2-0
4	Image and Video Processing	IT4004	PCC	4	3-0-2-0
5	Research Methodology & IPR	AS4100	ELC	2	2-0-0-0
6	Research Methodology-2	AS4200	ELC	2	2-0-0-0
Total				20	15-0-10-0
					25

Semester 2					Total Credit: 17
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Deep Learning	IT4005	PCC	4	3-0-2-0
2	Probabilistic Machine Learning and Graphical Model	IT4006	PCC	4	3-0-2-0
3	Elective - 1	IT5501-IT5599	PEC	3	3-0-0-0
4	Project	IT5610	ELC	4	0-1-6-0
5	HSMC	MS1102-MS1110	HSMC	2	2-0-0-0
Total				17	14-1-10-0
					25

Exit: After successful completion of one year (first two semesters), students may get **PG Diploma**. They need to earn 6 credits additional, in summer, before exit.

Semester 3					Total Credit: 11
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Optimization	IT4007	PCC	3	3-0-0-0
2	Elective – 2	IT5501-IT5599	PEC	3	3-0-0-0
3	Elective - 3	IT5501-IT5599	OEC	3	3-0-0-0
4	<i>Independent Study as advised by the Supervisor Suitable Title to be communicated for Grade Card purposes.</i>	IT5001	ELC	2	0-0-4-0
Total				11	09-0-4-0
					13

M.Tech-Ph.D : After the end of II Semester and passing all courses, the M.Tech-PhD student moves into the Ph.D Section of the Degree and will be henceforth governed by the Ph.D ordinance.

“Applicable with effect from 2023 admitted batch and onwards”

M.Tech. IT- Robotics and Machine Intelligence (RMI)

Semester 1					Total Credit: 18
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Mathematics for IT	IT4001	PCC	4	3-0-2-0
2	Advanced Programming Practices	IT4002	PCC	4	2-0-4-0
3	Introduction to Machine Learning	IT4003	PCC	4	3-0-2-0
4	Image and Video Processing	IT4004	PCC	4	3-0-2-0
5	Research Methodology & IPR	AS4100	ELC	2	2-0-0-0
				Total	18
					13-0-10-0
					23

Semester 2					Total Credit: 17
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Deep Learning	IT4005	PCC	4	3-0-2-0
2	Robot Motion Control	IT4020	PCC	4	3-0-2-0
3	Elective - 1	IT5501-IT5599	PEC	3	3-0-0-0
4	Project	IT5610	ELC	4	0-1-6-0
5	HSMC	MS1102-MS1110	HSMC	2	2-0-0-0
				Total	17
					11-1-10-0
					22

Exit: After successful completion of one year (first two semesters), students may get **PG Diploma**. They need to earn 6 credits additional, in summer, before exit.

Semester 3					Total Credit: 16
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Foundations of Robotics	IT4030	PCC	3	3-0-0-0
2	Elective – 2	IT5501-IT5599	PEC	3	3-0-0-0
3	Elective - 3	IT5501-IT5599	OEC	3	3-0-0-0
4	Thesis- Part 1	IT6001	ELC	7	0-0-14-0
				Total	16
					09-0-14-0
					23

Semester 4					Total Credit: 15
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Thesis- Part 2	IT6002	ELC	15	0-2-26-0
				Total	15
					0-2-26-0
					28

“Applicable with effect from 2023 admitted batch and onwards”

M.Tech-PhD. IT- Robotics and Machine Intelligence (RMI)

Semester 1					Total Credit: 20
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Mathematics for IT	IT4001	PCC	4	3-0-2-0
2	Advanced Programming Practices	IT4002	PCC	4	2-0-4-0
3	Introduction to Machine Learning	IT4003	PCC	4	3-0-2-0
4	Image and Video Processing	IT4004	PCC	4	3-0-2-0
5	Research Methodology & IPR	AS4100	ELC	2	2-0-0-0
6	Research Methodology-2	AS4200	ELC	2	2-0-0-0
Total				20	15-0-10-0
					25

Semester 2					Total Credit: 17
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Deep Learning	IT4005	PCC	4	3-0-2-0
2	Robot Motion Control	IT4020	PCC	4	3-0-2-0
3	Elective - 1	IT5501-IT5599	PEC	3	3-0-0-0
4	Project	IT5610	ELC	4	0-1-6-0
5	HSMC	MS1102-MS1110	HSMC	2	2-0-0-0
Total				17	14-1-10-0
					25

Exit: After successful completion of one year (first two semesters), students may get **PG Diploma**. They need to earn 6 credits additional, in summer, before exit.

Semester 3					Total Credit: 11
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Foundations of Robotics	IT4030	PCC	3	3-0-0-0
2	Elective – 2	IT5501-IT5599	PEC	3	3-0-0-0
3	Elective - 3	IT5501-IT5599	OEC	3	3-0-0-0
4	<i>Independent Study as advised by the Supervisor Suitable Title to be communicated for Grade Card purposes.</i>	IT5001	ELC	2	0-0-4-0
Total				11	09-0-04-0
					13

M.Tech-Ph.D : After the end of II Semester and passing all courses, the M.Tech-PhD student moves into the Ph.D Section of the Degree and will be henceforth governed by the Ph.D ordinance.

“Applicable with effect from 2023 admitted batch and onwards”

M.Tech. IT- Human-Computer Interaction (HCI)

Semester 1					Total Credit: 18
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Mathematics for IT	IT4001	PCC	4	3-0-2-0
2	Advanced Programming Practices	IT4002	PCC	4	2-0-4-0
3	Introduction to Machine Learning	IT4003	PCC	4	3-0-2-0
4	Image and Video Processing	IT4004	PCC	4	3-0-2-0
5	Research Methodology & IPR	AS4100	ELC	2	2-0-0-0
Total				18	13-0-10-0
					23

Semester 2					Total Credit: 17
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Deep Learning	IT4005	PCC	4	3-0-2-0
2	Advanced Graphics & Animation	IT4040	PCC	4	3-0-2-0
3	Elective - 1	IT5501-IT5599	PEC	3	3-0-0-0
4	Project	IT5610	ELC	4	0-1-6-0
5	HSMC	MS1102-MS1110	HSMC	2	2-0-0-0
Total				17	11-1-10-0
					22

Exit: After successful completion of one year (first two semesters), students may get **PG Diploma**. They need to earn 6 credits additional, in summer, before exit.

Semester 3					Total Credit: 16
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Virtual Reality	IT4041	PCC	3	3-0-0-0
2	Elective – 2	IT5501-IT5599	PEC	3	3-0-0-0
3	Elective - 3	IT5501-IT5599	OEC	3	3-0-0-0
4	Thesis- Part 1	IT6001	ELC	7	0-0-14-0
Total				16	09-2-10-0
					21

Semester 4					Total Credit: 15
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Thesis- Part 2	IT6002	ELC	15	0-2-26-0
Total				15	0-2-26-0
					28

“Applicable with effect from 2023 admitted batch and onwards”

M.Tech-PhD. IT- Human-Computer Interaction (HCI)

Semester 1					Total Credit: 20
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Mathematics for IT	IT4001	PCC	4	3-0-2-0
2	Advanced Programming Practices	IT4002	PCC	4	2-0-4-0
3	Introduction to Machine Learning	IT4003	PCC	4	3-0-2-0
4	Image and Video Processing	IT4004	PCC	4	3-0-2-0
5	Research Methodology & IPR	AS4100	ELC	2	2-0-0-0
6	Research Methodology-2	AS4200	ELC	2	2-0-0-0
Total				20	15-0-10-0
					25

Semester 2					Total Credit: 17
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Deep Learning	IT4005	PCC	4	3-0-2-0
2	Advanced Graphics & Animation	IT4040	PCC	4	3-0-2-0
3	Elective - 1	IT5501-IT5599	PEC	3	3-0-0-0
4	Project	IT5610	ELC	4	0-1-6-0
5	HSMC	MS1102-MS1110	HSMC	2	2-0-0-0
Total				17	14-1-10-0
					25

Exit: After successful completion of one year (first two semesters), students may get **PG Diploma**. They need to earn 6 credits additional, in summer, before exit.

Semester 3					Total Credit: 11
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Virtual Reality	IT4040	PCC	3	3-0-0-0
2	Elective – 2	IT5501-IT5599	PEC	3	3-0-0-0
3	Elective - 3	IT5501-IT5599	OEC	3	3-0-0-0
4	<i>Independent Study as advised by the Supervisor Suitable Title to be communicated for Grade Card purposes.</i>	IT5001	ELC	2	0-0-4-0
Total				11	09-0-4-0
					13

M.Tech-Ph.D : After the end of II Semester and passing all courses, the M.Tech-PhD student moves into the Ph.D Section of the Degree and will be henceforth governed by the Ph.D ordinance.

“Applicable with effect from 2023 admitted batch and onwards”

M.Tech. IT- Software Engineering (SE)

Semester 1					Total Credit: 18
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Mathematics for IT	IT4001	PCC	4	3-0-2-0
2	Advanced Programming Practices	IT4002	PCC	4	2-0-4-0
3	Introduction to Machine Learning	IT4003	PCC	4	3-0-2-0
4	Data Analytics	IT4008	PCC	4	3-0-2-0
5	Research Methodology & IPR	AS4100	ELC	2	2-0-0-0
Total				18	13-0-10-0
					23

Semester 2					Total Credit: 17
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Software Design & Architecture	IT4400	PCC	4	3-0-2-0
2	Software Requirements and Estimation	IT4401	PCC	4	3-0-2-0
3	Elective - 1	IT5501-IT5599	PEC	3	3-0-0-0
4	Project	IT5610	ELC	4	0-1-6-0
5	HSMC	MS1102-MS1110	HSMC	2	2-0-0-0
Total				17	11-1-10-0
					22

Exit: After successful completion of one year (first two semesters), students may get **PG Diploma**. They need to earn 6 credits additional, in summer, before exit.

Semester 3					Total Credit: 16
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Software Testing and Quality Management	IT4500	PCC	3	3-0-0-0
2	Elective – 2	IT5501-IT5599	PEC	3	3-0-0-0
3	Elective - 3	IT5501-IT5599	OEC	3	3-0-0-0
4	Thesis- Part 1	IT6001	ELC	7	0-0-14-0
Total				16	09-0-14-0
					23

Semester 4					Total Credit: 15
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Thesis- Part 2	IT6002	ELC	15	0-2-26-0
Total				15	0-2-26-0
					28

“Applicable with effect from 2023 admitted batch and onwards”

M.Tech-PhD. IT- Software Engineering (SE)

Semester 1					Total Credit: 20
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Mathematics for IT	IT4001	PCC	4	3-0-2-0
2	Advanced Programming Practices	IT4002	PCC	4	2-0-4-0
3	Introduction to Machine Learning	IT4003	PCC	4	3-0-2-0
4	Data Analytics	IT4008	PCC	4	3-0-2-0
5	Research Methodology & IPR	AS4100	ELC	2	2-0-0-0
6	Research Methodology-2	AS4200	ELC	2	2-0-0-0
Total				20	15-0-10-0
					25

Semester 2					Total Credit: 17
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Software Design & Architecture	IT4400	PCC	4	3-0-2-0
2	Software Requirements and Estimation	IT4401	PCC	4	3-0-2-0
3	Elective - 1	IT5501-IT5599	PEC	3	3-0-0-0
4	Project	IT5610	ELC	4	0-1-6-0
5	HSMC	MS1102-MS1110	HSMC	2	2-0-0-0
Total				17	11-1-10-0
					22

Exit: After successful completion of one year (first two semesters), students may get **PG Diploma**. They need to earn 6 credits additional, in summer, before exit.

Semester 3					Total Credit: 11
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Software Testing and Quality Management	IT4500	PCC	3	3-0-0-0
2	Elective – 2	IT5501-IT5599	PEC	3	3-0-0-0
3	Elective - 3	IT5501-IT5599	OEC	3	3-0-0-0
4	<i>Independent Study as advised by the Supervisor Suitable Title to be communicated for Grade Card purposes.</i>	IT5001	ELC	2	0-0-4-0
Total				11	09-0-4-0
					13

M.Tech-Ph.D : After the end of II Semester and passing all courses, the M.Tech-PhD student moves into the Ph.D Section of the Degree and will be henceforth governed by the Ph.D ordinance.

“Applicable with effect from 2023 admitted batch and onwards”

M.Tech. IT- Data Engineering (DE)

Semester 1					Total Credit: 18
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Mathematics for IT	IT4001	PCC	4	3-0-2-0
2	Advanced Programming Practices	IT4002	PCC	4	2-0-4-0
3	Introduction to Machine Learning	IT4003	PCC	4	3-0-2-0
4	Data Analytics	IT4008	PCC	4	3-0-2-0
5	Research Methodology & IPR	AS4100	ELC	2	2-0-0-0
Total				18	13-0-10-0
					23

Semester 2					Total Credit: 17
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Data Visualization	IT4601	PCC	4	3-0-2-0
2	Big Data Analytics	IT4250	PCC	4	3-0-2-0
3	Elective - 1	IT5501-IT5599	PEC	3	3-0-0-0
4	Project	IT5610	ELC	4	0-1-6-0
5	HSMC	MS1102-MS1110	HSMC	2	2-0-0-0
Total				17	11-1-10-0
					22

Exit: After successful completion of one year (first two semesters), students may get **PG Diploma**. They need to earn 6 credits additional, in summer, before exit.

Semester 3					Total Credit: 16
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Parallel and Distributed Computing	IT4522	PCC	3	3-0-0-0
2	Elective – 2	IT5501-IT5599	PEC	3	3-0-0-0
3	Elective - 3	IT5501-IT5599	OEC	3	3-0-0-0
4	Thesis- Part 1	IT6001	ELC	7	0-0-14-0
Total				16	09-0-14-0
					23

Semester 4					Total Credit: 15
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Thesis- Part 2	IT6002	ELC	15	0-2-26-0
Total				15	0-2-26-0
					28

“Applicable with effect from 2023 admitted batch and onwards”

M.Tech-PhD. IT- Data Engineering (DE)

Semester 1					Total Credit: 20
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Mathematics for IT	IT4001	PCC	4	3-0-2-0
2	Advanced Programming Practices	IT4002	PCC	4	2-0-4-0
3	Introduction to Machine Learning	IT4003	PCC	4	3-0-2-0
4	Data Analytics	IT4008	PCC	4	3-0-2-0
5	Research Methodology & IPR	AS4100	ELC	2	2-0-0-0
6	Research Methodology-2	AS4200	ELC	2	2-0-0-0
Total				20	15-0-10-0
					25

Semester 2					Total Credit: 17
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Data Visualization	IT4600	PCC	4	3-0-2-0
2	Big Data Analytics	IT4250	PCC	4	3-0-2-0
3	Elective - 1	IT5501-IT5599	PEC	3	3-0-0-0
4	Project	IT5610	ELC	4	0-1-6-0
5	HSMC	MS1102-MS1110	HSMC	2	2-0-0-0
Total				17	11-1-10-0
					22

Exit: After successful completion of one year (first two semesters), students may get **PG Diploma**. They need to earn 6 credits additional, in summer, before exit.

Semester 3					Total Credit: 11
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Parallel and Distributed Computing	IT4500	PCC	3	3-0-0-0
2	Elective – 2	IT5501-IT5599	PEC	3	3-0-0-0
3	Elective - 3	IT5501-IT5599	OEC	3	3-0-0-0
4	<i>Independent Study as advised by the Supervisor Suitable Title to be communicated for Grade Card purposes.</i>	IT5001	ELC	2	0-0-4-0
Total				11	09-0-4-0
					13

M.Tech-Ph.D : After the end of II Semester and passing all courses, the M.Tech-PhD student moves into the Ph.D Section of the Degree and will be henceforth governed by the Ph.D ordinance.

“Applicable with effect from 2023 admitted batch and onwards”

M.Tech. IT- Wireless Communication and Computing (WCC)

Semester 1					Total Credit: 18
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Mathematics for IT	IT4001	PCC	4	3-0-2-0
2	Advanced Programming Practices	IT4002	PCC	4	2-0-4-0
3	Introduction to Cryptography	IT4009	PCC	4	3-0-2-0
4	Networking Concepts	IT4010	PCC	4	3-0-2-0
5	Research Methodology & IPR	AS4100	ELC	2	2-0-0-0
Total				18	13-0-10-0
					23

Semester 2					Total Credit: 17
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Principles of Wireless Communications	IT4700	PCC	4	3-0-2-0
2	Cloud and Edge Computing	IT4701	PCC	4	3-0-2-0
3	Elective - 1	IT5501-IT5599	PEC	3	3-0-0-0
4	Project	IT5610	ELC	4	0-1-6-0
5	HSMC	MS1102-MS1110	HSMC	2	2-0-0-0
Total				17	11-1-10-0
					22

Exit: After successful completion of one year (first two semesters), students may get **PG Diploma**. They need to earn 6 credits additional, in summer, before exit.

Semester 3					Total Credit: 16
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Embedded Systems and IoT	IT4800	PCC	3	3-0-0-0
2	Elective – 2	IT5501-IT5599	PEC	3	3-0-0-0
3	Elective - 3	IT5501-IT5599	OEC	3	3-0-0-0
4	Thesis- Part 1	IT6001	ELC	7	0-0-14-0
Total				16	09-0-14-0
					23

Semester 4					Total Credit: 15
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Thesis- Part 2	IT6002	ELC	15	0-2-26-0
Total				15	0-2-26-0
					28

“Applicable with effect from 2023 admitted batch and onwards”

M.Tech-PhD. IT- Wireless Communication and Computing (WCC)

Semester 1					Total Credit: 20
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Mathematics for IT	IT4001	PCC	4	3-0-2-0
2	Advanced Programming Practices	IT4002	PCC	4	2-0-4-0
3	Introduction to Cryptography	IT4009	PCC	4	3-0-2-0
4	Networking Concepts	IT4010	PCC	4	3-0-2-0
5	Research Methodology & IPR	AS4100	ELC	2	2-0-0-0
6	Research Methodology-2	AS4200	ELC	2	2-0-0-0
				Total	20
					15-0-10-0
					25

Semester 2					Total Credit: 17
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Principles of Wireless Communications	IT4700	PCC	4	3-0-2-0
2	Cloud and Edge Computing	IT4701	PCC	4	3-0-2-0
3	Elective - 1	IT5501-IT5599	PEC	3	3-0-0-0
4	Project	IT5610	ELC	4	0-1-6-0
5	HSMC	MS1102-MS1110	HSMC	2	2-0-0-0
				Total	17
					11-1-10-0
					22

Exit: After successful completion of one year (first two semesters), students may get **PG Diploma**. They need to earn 6 credits additional, in summer, before exit.

Semester 3					Total Credit: 11
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Embedded Systems and IoT	IT4800	PCC	3	3-0-0-0
2	Elective – 2	IT5501-IT5599	PEC	3	3-0-0-0
3	Elective - 3	IT5501-IT5599	OEC	3	3-0-0-0
4	<i>Independent Study as advised by the Supervisor Suitable Title to be communicated for Grade Card purposes.</i>	IT5001	ELC	2	0-0-4-0
				Total	11
					09-0-4-0
					13

M.Tech-Ph.D : After the end of II Semester and passing all courses, the M.Tech-PhD student moves into the Ph.D Section of the Degree and will be henceforth governed by the Ph.D ordinance.

“Applicable with effect from 2023 admitted batch and onwards”

M.Tech. IT- Cyber Laws and Information Security (CLIS)

Semester 1					Total Credit: 18
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Mathematics for IT	IT4001	PCC	4	3-0-2-0
2	Advanced Programming Practices	IT4002	PCC	4	2-0-4-0
3	Introduction to Cryptography	IT4009	PCC	4	3-0-2-0
4	Networking Concepts	IT4010	PCC	4	3-0-2-0
5	Research Methodology & IPR	AS4100	ELC	2	2-0-0-0
Total				18	13-0-10-0
					23

Semester 2					Total Credit: 17
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Information Security Laws and Regulations	IT4900	PCC	4	3-0-2-0
2	Network Security	IT4901	PCC	4	3-0-2-0
3	Elective - 1	IT5501-IT5599	PEC	3	3-0-0-0
4	Project	IT5610	ELC	4	0-1-6-0
5	HSMC	MS1102-MS1110	HSMC	2	2-0-0-0
Total				17	11-1-10-0
					22

Exit: After successful completion of one year (first two semesters), students may get **PG Diploma**. They need to earn 6 credits additional, in summer, before exit.

Semester 3					Total Credit: 16
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Cyber Physical System Security	IT4950	PCC	3	3-0-0-0
2	Elective – 2	IT5501-IT5599	PEC	3	3-0-0-0
3	Elective - 3	IT5501-IT5599	OEC	3	3-0-0-0
4	Thesis- Part 1	IT6001	ELC	7	0-0-14-0
Total				16	09-0-14-0
					23

Semester 4					Total Credit: 15
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Thesis- Part 2	IT6002	ELC	15	0-2-26-0
Total				15	0-2-26-0
					28

“Applicable with effect from 2023 admitted batch and onwards”

M.Tech-PhD. IT- Cyber Laws and Information Security (CLIS)

Semester 1					Total Credit: 20
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Mathematics for IT	IT4001	PCC	4	3-0-2-0
2	Advanced Programming Practices	IT4002	PCC	4	2-0-4-0
3	Introduction to Cryptography	IT4009	PCC	4	3-0-2-0
4	Networking Concepts	IT4010	PCC	4	3-0-2-0
5	Research Methodology & IPR	AS4100	ELC	2	2-0-0-0
6	Research Methodology-2	AS4200	ELC	2	2-0-0-0
Total				20	15-0-10-0
					25

Semester 2					Total Credit: 17
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Information Security Laws and Regulations	IT4900	PCC	4	3-0-2-0
2	Network Security	IT4901	PCC	4	3-0-2-0
3	Elective - 1	IT5501-IT5599	PEC	3	3-0-0-0
4	Project	IT5610	ELC	4	0-1-6-0
5	HSMC	MS1102-MS1110	HSMC	2	2-0-0-0
Total				17	11-1-10-0
					22

Exit: After successful completion of one year (first two semesters), students may get **PG Diploma**. They need to earn 6 credits additional, in summer, before exit.

Semester 3					Total Credit: 11
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Cyber Physical System Security	IT4950	PCC	3	3-0-0-0
2	Elective – 2	IT5501-IT5599	PEC	3	3-0-0-0
3	Elective - 3	IT5501-IT5599	OEC	3	3-0-0-0
4	<i>Independent Study as advised by the Supervisor Suitable Title to be communicated for Grade Card purposes.</i>	IT5001	ELC	2	0-0-4-0
Total				11	09-0-4-0
					13

M.Tech-Ph.D : After the end of II Semester and passing all courses, the M.Tech-PhD student moves into the Ph.D Section of the Degree and will be henceforth governed by the Ph.D ordinance.

“Applicable with effect from 2023 admitted batch and onwards”

M.Tech. Applied Science -Bio Informatics (BI)

Semester 1					Total Credit: 18
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	OMICS	AS4001	PCC	4	3-0-2-0
2	Data Analytics Fundamentals for Biology	AS4002	PCC	4	3-1-0-0
3	Scripting and Computer Environments	AS4003	PCC	4	2-0-4-0
4	Data Structure and Algorithms	AS4004	PCC	4	2-0-4-0
5	Research Methodology & IPR	AS4100	ELC	2	2-0-0-0
Total				18	12-1-10-0
					23

Semester 2					Total Credit: 17
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Data Engineering for Molecular Structure Prediction	AS4101	PCC	4	3-0-2-0
2	Next-Generation Sequencing Tools and Algorithms	AS4103	PCC	4	3-0-2-0
3	Elective - 1	AS5501-AS5599	PEC	3	3-0-0-0
4	Project	AS5610	ELC	4	0-0-8-0
5	HSMC	MS1102-MS1110	HSMC	2	2-0-0-0
Total				17	11-0-12-0
					23

Exit: After successful completion of one year (first two semesters), students may get **PG Diploma**. They need to earn 6 credits additional, in summer, before exit.

Semester 3					Total Credit: 16
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Elective – 2	AS5501-AS5599	PEC	3	3-0-0-0
2	Elective – 3	AS5501-AS5599	PEC	3	3-0-0-0
3	Elective - 4	AS5501-AS5599	OEC	3	3-0-0-0
4	Thesis- Part 1	AS6001	ELC	7	0-0-14-0
Total				16	09-0-14-0
					23

Semester 4					Total Credit: 15
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Thesis- Part 2	AS6002	ELC	15	0-0-30-0
Total				15	0-0-30-0
					30

“Applicable with effect from 2023 admitted batch and onwards”

M.Tech-PhD. Applied Science -Bio Informatics (BI)

Semester 1					Total Credit: 20
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	OMICS	AS4001	PCC	4	3-0-2-0
2	Data Analytics Fundamentals for Biology	AS4002	PCC	4	3-1-0-0
3	Scripting and Computer Environments	AS4003	PCC	4	2-0-4-0
4	Data Structure and Algorithms	AS4004	PCC	4	2-0-4-0
5	Research Methodology & IPR	AS4100	ELC	2	2-0-0-0
6	Research Methodology-2	AS4200	ELC	2	2-0-0-0
Total				20	14-1-10-0
					25

Semester 2					Total Credit: 17
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Data Engineering for Molecular Structure Prediction	AS4101	PCC	4	3-0-2-0
2	Next-Generation Sequencing Tools and Algorithms	AS4103	PCC	4	3-0-2-0
3	Elective - 1	AS5501-AS5599	PEC	3	3-0-0-0
4	Project	AS5610	ELC	4	0-0-8-0
5	HSMC	MS1102-MS1110	HSMC	2	2-0-0-0
Total				17	11-0-12-0
					23

Exit: After successful completion of one year (first two semesters), students may get **PG Diploma**. They need to earn 6 credits additional, in summer, before exit.

Semester 3					Total Credit: 11
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Elective – 2	AS5501-AS5599	PEC	3	3-0-0-0
2	Elective – 3	AS5501-AS5599	PEC	3	3-0-0-0
3	Elective - 4	AS5501-AS5599	OEC	3	3-0-0-0
4	<i>Independent Study as advised by the Supervisor Suitable Title to be communicated for Grade Card purposes.</i>	AS5001	ELC	2	0-0-4-0
Total				11	09-0-4-0
					13

M.Tech-Ph.D : After the end of II Semester and passing all courses, the M.Tech-PhD student moves into the Ph.D Section of the Degree and will be henceforth governed by the Ph.D ordinance.

“Applicable with effect from 2023 admitted batch and onwards”

M.Tech. Applied Science –Bio-Medical Engineering (BME)

Semester 1					Total Credit: 18
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Circuits and Instrumentation for Biomedical Engineering	AS4500	PCC	4	3-0-2-0
2	Biomechanics	AS4501	PCC	4	3-0-2-0
3	Core courses to be chosen from one of the Basket 1/2		PCC	4	3-0-2-0
4	Core courses to be chosen from one of the Basket 1/2		PCC	4	3-0-2-0
5	Research Methodology & IPR	AS4100	ELC	2	2-0-0-0
				Total	18
					14-0-08-0
					22
Basket 1: Medical/B.Pharma. /Pharmacology/Biotechnology/M.Sc. in Biology or Life Sciences/Applied Chemistry					
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Biosignal Processing	AS4530	PCC	4	3-0-2-0
2	Mathematics and Statistics for Biology	AS4531	PCC	4	3-1-0-0

Basket 2: Engineering/Technology/Instrumentation/Electronics/IT/CS/Physics/Applied Physics					
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Molecular Biology	AS4550	PCC	4	3-0-2-0
2	Anatomy & Physiology	AS4551	PCC	4	3-0-2-0

Semester 2					Total Credit: 17
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Advanced Medical Instrumentation	AS4200	PCC	4	3-0-2-0
2	Biomedical Imaging	AS4201	PCC	4	3-0-2-0
3	Elective - 1	AS5501-AS5599	PEC	3	3-0-0-0
4	Project	AS5610	ELC	4	0-0-8-0
5	HSMC	MS1102-MS1110	HSMC	2	2-0-0-0
				Total	17
					11-0-12-0
					23

Exit: After successful completion of one year (first two semesters), students may get **PG Diploma**. They need to earn 6 credits additional, in summer, before exit.

“Applicable with effect from 2023 admitted batch and onwards”

Semester 3					Total Credit: 17
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Elective – 2	AS5501-AS5599	PEC	3	3-0-0-0
2	Elective – 2	AS5501-AS5599	PEC	3	3-0-0-0
3	Elective - 4	AS5501-AS5599	OEC	3	3-0-0-0
4	Thesis- Part 1	AS6001	ELC	7	0-0-14-0
				Total	16
					09-0-14-0
					23

Semester 4					Total Credit: 15
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Thesis- Part 2	AS6002	ELC	15	0-0-30-0
				Total	15
					0-0-30-0
					30

“Applicable with effect from 2023 admitted batch and onwards”

MTECH ECE- Microelectronics (MI)

Semester 1					Total Credit: 18
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Digital System Design	EC4001	PCC	4	3-0-2-0
2	VLSI Technology	EC4002	PCC	4	3-0-2-0
3	Solid State Devices	EC4003	PCC	4	3-0-2-0
4	Embedded System Design	EC4004	PCC	4	3-0-2-0
5	Research Methodology & IPR	AS4100	ELE	2	2-0-0-0
Total				18	14-0-08-0
					22

Semester 2					Total Credit: 17
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Testing and Verification	EC4005	PCC	4	3-0-2-0
2	Analog Integrated Circuit Design	EC4006	PCC	4	3-0-2-0
3	Elective - 1	EC5501-EC5599	PEC	3	3-0-0-0
4	Project	EC5610	PEC	4	0-0-8-0
5	HSMC	MS1102-MS1110	HSMC	2	2-0-0-0
Total				17	11-0-12-0
					23

Exit: After successful completion of one year (first two semesters), students may get **PG Diploma**. They need to earn 6 credits additional, in summer, before exit.

Semester 3					Total Credit: 16
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Elective – 2	EC5501-EC5599	PEC	3	3-0-0-0
2	Elective – 3	EC5501-EC5599	PEC	3	3-0-0-0
3	Elective - 4	EC5501-EC5599	OEC	3	3-0-0-0
4	Thesis- Part 1	EC6001	ELC	7	0-0-14-0
Total				16	09-0-14-0
					23

Semester 4					Total Credit: 15
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Thesis- Part 2	EC6002	ELC	15	0-2-26-0
Total				15	0-2-26-0
					28

“Applicable with effect from 2023 admitted batch and onwards”

M.Tech-PhD. IT- Microelectronics (MI)

Semester 1					Total Credit: 20
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Digital System Design	EC4001	PCC	4	3-0-2-0
2	VLSI Technology	EC4002	PCC	4	3-0-2-0
3	Solid State Devices	EC4003	PCC	4	3-0-2-0
4	Embedded System Design	EC4004	PCC	4	3-0-2-0
5	Research Methodology & IPR	AS4100	ELE	2	2-0-0-0
6	Research Methodology-2	AS4200	ELC	2	2-0-0-0
Total				20	16-0-08-0
					24

Semester 2					Total Credit: 17
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Testing and Verification	EC4005	PCC	4	3-0-2-0
2	Analog Integrated Circuit Design	EC4006	PCC	4	3-0-2-0
3	Elective - 1	EC5501-EC5599	PEC	3	3-0-0-0
4	Project	EC5610	PEC	4	0-0-8-0
5	HSMC	MS1102-MS1110	HSMC	2	2-0-0-0
Total				17	11-0-12-0
					23

Exit: After successful completion of one year (first two semesters), students may get **PG Diploma**. They need to earn 6 credits additional, in summer, before exit.

Semester 3					Total Credit: 11
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Elective – 2	EC5501-EC5599	PEC	3	3-0-0-0
2	Elective – 3	EC5501-EC5599	PEC	3	3-0-0-0
3	Elective - 4	EC5501-EC5599	OEC	3	3-0-0-0
4	<i>Independent Study as advised by the Supervisor Suitable Title to be communicated for Grade Card purposes.</i>	EC5001	ELC	2	0-0-4-0
Total				11	09-0-4-0
					13

M.Tech-Ph.D : After the end of II Semester and passing all courses, the M.Tech-PhD student moves into the Ph.D Section of the Degree and will be henceforth governed by the Ph.D ordinance

“Applicable with effect from 2023 admitted batch and onwards”

M.Tech. ECE- Communication Engineering (CE)

Semester 1					Total Credit: 18
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Advanced Digital Communication	EC4075	PCC	4	3-0-2-0
2	Statistical Signal Analysis	EC4076	PCC	4	3-0-2-0
3	Radiating Systems	EC4077	PCC	4	3-0-2-0
4	Introduction to Machine Learning	EC4078	PCC	4	3-0-2-0
5	Research Methodology & IPR	AS4100	ELE	2	2-0-0-0
Total				18	14-0-08-0
					22

Semester 2					Total Credit: 17
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Principles of Wireless Communications	EC4035	PCC	4	3-0-2-0
2	Recent Advances in Machine Learning	EC4036	PCC	4	3-0-2-0
3	Elective - 1	EC5500-EC5599	PEC	3	3-0-0-0
4	Project	EC5610	PEC	4	0-0-8-0
5	HSMC	MS1102-MS1110	HSMC	2	2-0-0-0
Total				17	11-0-12-0
					23

Exit: After successful completion of one year (first two semesters), students may get **PG Diploma**. They need to earn 6 credits additional, in summer, before exit.

Semester 3					Total Credit: 16
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Elective – 2	EC5501-EC5599	PEC	3	3-0-0-0
2	Elective – 3	EC5501-EC5599	PEC	3	3-0-0-0
3	Elective - 4	EC5501-EC5599	OEC	3	3-0-0-0
4	Thesis- Part 1	EC6001	ELC	7	0-0-14-0
Total				16	09-0-14-0
					23

Semester 4					Total Credit: 15
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Thesis- Part 2	EC6002	ELC	15	0-2-26-0
Total				15	0-2-26-0
					28

“Applicable with effect from 2023 admitted batch and onwards”

M.Tech-PhD. ECE- Communication Engineering (CE)

Semester 1					Total Credit: 20
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Advanced Digital Communication	EC4075	PCC	4	3-0-2-0
2	Statistical Signal Analysis	EC4076	PCC	4	3-0-2-0
3	Radiating Systems	EC4077	PCC	4	3-0-2-0
4	Introduction to Machine Learning	EC4078	PCC	4	3-0-2-0
5	Research Methodology & IPR	AS4100	ELE	2	2-0-0-0
6	Research Methodology-2	AS4200	ELC	2	2-0-0-0
				Total	20
					16-0-08-0
					24

Semester 2					Total Credit: 17
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Principles of Wireless Communications	EC4035	PCC	4	3-0-2-0
2	Recent Advances in Machine Learning	EC4036	PCC	4	3-0-2-0
3	Elective - 1	EC5500-EC5599	PEC	3	3-0-0-0
4	Project	EC5610	PEC	4	0-0-8-0
5	HSMC	MS1102-MS1110	HSMC	2	2-0-0-0
				Total	17
					11-0-12-0
					23

Exit: After successful completion of one year (first two semesters), students may get **PG Diploma**. They need to earn 6 credits additional, in summer, before exit.

Semester 3					Total Credit: 11
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Elective – 2	EC5501-EC5599	PEC	3	3-0-0-0
2	Elective – 3	EC5501-EC5599	PEC	3	3-0-0-0
3	Elective - 4	EC5501-EC5599	OEC	3	3-0-0-0
4	<i>Independent Study as advised by the Supervisor Suitable Title to be communicated for Grade Card purposes.</i>	EC5001	ELC	2	0-0-4-0
				Total	11
					09-0-4-0
					13

M.Tech-Ph.D : After the end of II Semester and passing all courses, the M.Tech-PhD student moves into the Ph.D Section of the Degree and will be henceforth governed by the Ph.D ordinance

“Applicable with effect from 2023 admitted batch and onwards”

MBA- Management Studies

Semester 1					Total Credit: 20
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Financial Statements and Analysis	MS4101	PCC	3	2-1-0-0
2	Business Statistics	MS4102	PCC	3	2-0-2-0
3	Research Methodology	MS4103	PCC	3	3-0-0-0
4	Economics	MS4104	PCC	3	3-0-0-0
5	Management Thought and Environment	MS4105	PCC	3	2-0-2-0
6	IT Infrastructure & Services Mgt.	MS4106	PCC	3	2-0-2-0
7	Organizational Behavior	MS4107	PCC	2	2-0-0-0
				Total	20
					16-1-06-0
					22

Semester 2					Total Credit: 20
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Corporate Finance	MS4108	PCC	3	2-1-0-0
2	Production & Operations Management	MS4109	PCC	3	2-0-2-0
3	Operation Research	MS4110	PCC	3	2-0-2-0
4	Human Resource Management	MS4111	PCC	3	2-0-2-0
5	Marketing Management	MS4112	PCC	3	2-0-2-0
6	Database Management Systems	MS4113	PCC	3	2-0-2-0
7	Entrepreneurship Development	MS4114	PCC	2	1-0-2-0
				Total	20
					13-1-12-0
					26

Exit: After successful completion of one year (first two semesters), students may get **Diploma in Business Administration**. They need to earn 6 credits additional, in summer, before exit.

“Applicable with effect from 2023 admitted batch and onwards”

Semester 3					Total Credit: 20
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Strategic Management	MS5201	PCC	3	2-0-2-0
2	Business Continuity Plan & DRP	MS5202	PCC	3	2-0-2-0
3,4	Two courses to be chosen from one of the Baskets 1/2/3/4/5/6	MS5501-MS5599	PEC	3 3	2-0-2-0 2-0-2-0
5,6	Two courses to be chosen from one of the Baskets 1/2/3/4/5/6	MS5501-MS5599	PEC	3 3	2-0-2-0 2-0-2-0
7	Summer Internship	MS6001	PEC	2	0-0-0-4
				Total	20
					12-0-12-0
					24
Basket 1: Marketing Management					
Basket 2: Human Resource Management					
Basket 3: Financial Management					
Basket 4: IT					
Basket 5: Operation Management					
Basket 6: Entrepreneurship Development					

Semester 4					Total Credit: 22
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Digital Transformation	MS5203	PCC	3	2-0-2-0
2	Product Management	MS5204	PCC	3	2-0-2-0
3,4	Two courses to be chosen from one of the Baskets 1/2/3/4/5/6	MS5501-MS5599	PEC	3 3	2-0-2-0 2-0-2-0
5,6	Two courses to be chosen from one of the Baskets 1/2/3/4/5/6	MS5501-MS5599	PEC	3 3	2-0-2-0 2-0-2-0
7	Master Project	MS6002	PEC	4	0-0-0-8
				Total	22
					16-0-4-8
					28
Basket 1: Marketing Management					
Basket 2: Human Resource Management					
Basket 3: Financial Management					
Basket 4: IT					
Basket 5: Operation Management					
Basket 6: Entrepreneurship Development					

“Applicable with effect from 2023 admitted batch and onwards”

Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
Finance Basket					
1	Security Analysis and A Portfolio Management	MS5501	PEC	3	3-0-0-0
2	International Financial Management	MS5502	PEC	3	3-0-0-0
3	Strategic Cost Management	MS5503	PEC	3	3-0-0-0
4	Behaviour Finance	MS5504	PEC	3	3-0-0-0
5	Management of Banking and Financial Institution	MS5505	PEC	3	3-0-0-0
6	Financial Technology	MS5506	PEC	3	3-0-0-0
7	Financial Derivatives and Risk Management	MS5507	PEC	3	3-0-0-0
8	Project Appraisal and Financing	MS5508	PEC	3	3-0-0-0
Operation Basket					
1	Strategic Sourcing and Logistic Management	MS5509	PEC	3	3-0-0-0
2	Supply Chain Management	MS5510	PEC	3	3-0-0-0
3	Project Management	MS5511	PEC	3	3-0-0-0
4	Knowledge Management	MS5512	PEC	3	3-0-0-0
5	Total Quality Management and Six Sigma	MS5513	PEC	3	3-0-0-0
6	Sustainable and Global Supply Chain	MS5514	PEC	3	3-0-0-0
7	Service Operations Management	MS5515	PEC	3	3-0-0-0
8	Advanced Operations Research	MS5516	PEC	3	3-0-0-0
IT Basket					
1	FIS and IT Audit	MS5517	PEC	3	3-0-0-0
2	IT Risk Compliance	MS5518	PEC	3	3-0-0-0
3	IT Governance & Control	MS5519	PEC	3	3-0-0-0
4	Cyber Security Strategy and Implementation	MS5520	PEC	3	3-0-0-0
5	Cloud Services & Security	MS5521	PEC	3	3-0-0-0

“Applicable with effect from 2023 admitted batch and onwards”

6	Search Engine Optimization	MS5522	PEC	3	3-0-0-0
7	Risk Vulnerability and Physical Assessment	MS5523	PEC	3	3-0-0-0
8	Expert System Design and Applications	MS5524	PEC	3	3-0-0-0
9	System Analysis and Design and Software Engineering	MS5525	PEC	3	3-0-0-0
10	Business Intelligence	MS5526	PEC	3	3-0-0-0
Marketing Basket					
1	Advertising and Sales Promotion	MS5527	PEC	3	3-0-0-0
2	Digital Marketing	MS5528	PEC	3	3-0-0-0
3	Marketing of Services	MS5529	PEC	3	3-0-0-0
4	Retail Operations and Management	MS5530	PEC	3	3-0-0-0
5	International Marketing	MS5531	PEC	3	3-0-0-0
6	Strategic Marketing	MS5532	PEC	3	3-0-0-0
7	Business Marketing and Key Account Management	MS5533	PEC	3	3-0-0-0
8	Consumer Behaviour	MS5534	PEC	3	3-0-0-0
9	Marketing Research	MS5535	PEC	3	3-0-0-0
10	Data Driven Marketing	MS5536	PEC	3	3-0-0-0
HR Basket					
1	Emotional Intelligence and Leadership	MS5537	PEC	3	3-0-0-0
2	Employer Brand Building	MS5538	PEC	3	3-0-0-0
3	Strategic HRM	MS5539	PEC	3	3-0-0-0
4	Creativity and Innovation	MS5540	PEC	3	3-0-0-0
5	Training and Development	MS5541	PEC	3	3-0-0-0
Entrepreneur Basket					
1	Entrepreneurship Development	MS5542	PEC	3	3-0-0-0
2	Innovation Development	MS5543	PEC	3	3-0-0-0
3	Social Entrepreneurship	MS5544	PEC	3	3-0-0-0
4	Entrepreneurial Finance	MS5545	PEC	3	3-0-0-0

“Applicable with effect from 2023 admitted batch and onwards”

5	Project Appraisal and Management	MS5546	PEC	3	3-0-0-0
6	Managing Corporate Entrepreneurship	MS5547	PEC	3	3-0-0-0