

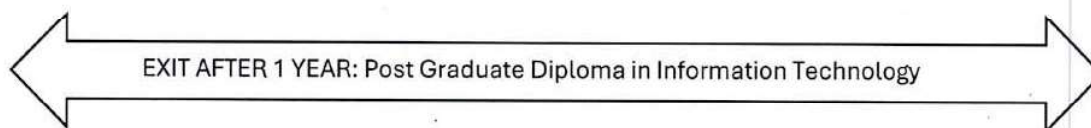
**Atal Bihari Vajpayee  
Indian Institute of Information Technology and Management Gwalior**

**M. Tech in Information Technology  
Department of Information Technology**

**Track 1-Smart Mobility Systems Engineering**

Semester – I				
SN	Subject Code	Course Title	L-T-P	Credits
1	IT-601	Machine Learning Techniques	3-0-2	4
2	IT-602	Mathematical Foundations for Data Science	3-0-2	4
3	IT-603	Advanced Data Structures and Algorithms	3-0-2	4
4	IT-604	Introduction to Robotics	3-0-2	4
5	IT-605	Design for Reliability: Information and Computer Based Systems	3-0-2	4
			Credits	20

Semester – II				
SN	Subject Code	Course Title	L-T-P	Credits
1	IT-612	Deep Learning	3-0-2	4
2	IT-613	Cyber Physical Systems	3-0-2	4
3	IT-614	Secure System Design	3-0-0	3
4	IT-6XX	Elective I	3-0-0	3
5	IT-6XX	Mini Project	0-0-6	3
6	IT-624	Engineering Research Methodology	2-1-0	3
			Credits	20



Semester – III				
SN	Subject Code	Course Title	L-T-P	Credits
1	IT-6XX	Elective II/MOOC	3-0-0	3
2		Dissertation Part - I		12
			Credits	15

Semester – IV				
SN	Subject Code	Course Title	L-T-P	Credits
1		Dissertation Part - II		15
			Credits	15

## Track 2- Intelligent Information Systems Engineering

Semester – I				
SN	Subject Code	Course Title	L-T-P	Credits
1	IT-601	Machine Learning Techniques	3-0-2	4
2	IT-602	Mathematical Foundations for Data Science	3-0-2	4
3	IT-603	Advanced Data Structures and Algorithms	3-0-2	4
4	IT-604	Introduction to Natural Language Processing	3-0-2	4
5	IT-605	Design for Reliability: Information and Computer Based Systems	3-0-2	4
			Credits	20

Semester – II				
SN	Subject Code	Course Title	L-T-P	Credits
1	IT-612	Deep Learning	3-0-2	4
2	IT-613	Advanced Natural Language Processing	3-0-2	4
3	IT-6XX	Social Networks Analysis	3-0-0	3
4	IT-6XX	Elective I	3-0-0	3
5	IT-6XX	Mini Project	0-0-6	3
6	IT-624	Engineering Research Methodology	2-1-0	3
			Credits	20



Semester – III				
SN	Subject Code	Course Title	L-T-P	Credits
1	IT-6XX	Elective II/MOOC	3-0-0	3
2		Dissertation Part - I		12
			Credits	15

Semester – IV				
SN	Subject Code	Course Title	L-T-P	Credits
1		Dissertation Part - II		15
			Credits	15

**Distribution of Credits for both tracks 1 & 2:**

1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester
20	20	15	15