

## 2. Course Structure:

Definition of L-T-P-C (Lecture-Tutorial-Practical-Credit) System

- L (Lecture Hours per Week) – The number of hours spent in classroom lectures.
- T (Tutorial Hours per Week) – The number of hours dedicated to discussion sessions, problem-solving, or conceptual clarifications.
- P (Practical/Lab Hours per Week) – The number of hours spent in hands-on practical sessions or lab work.
- C (Total Credits Earned) – The total credits assigned to the course, generally determined as:

$$C = L + T + \frac{P}{2}$$

(Where lab/practical hours contribute half of their duration to the credit count.)

Credit Distribution table	No. of Courses	Credits
Core- Major	8	32
Core- Minor	2	18
Elective- Core	4	16
Project work/Research & Dissertation work	2	24
<b>Total Credits</b>		<b>80</b>

Semester	Course Code	Category	Course Title	L-T-P	Credits
I	EMAI101	Core-Major	Big data platforms for AI & ML	3-0-2	4
	EMAI102	Core-Major	Advanced Data Structures & Algorithms	3-0-2	4
	EMAI103	Core-Minor	Mathematical Foundations for AI (Linear Algebra, Probability, Optimization)	3-1-0	4
	EMAI104	Core-Major	Programming for AI & Data Science (Python, NumPy, Pandas, Scikit-learn)	2-0-4	4
	EMAI105	Core-Minor	Foundations of Machine Learning	3-1-0	4
			<b>Total Credits</b>		<b>20</b>
			<b>Number of Hours/ Week</b>	<b>14-2-8</b>	<b>24</b>

II	EMAI201	Core-Major	Deep Learning	3-0-2	4
	EMAI202	Core-Major	Natural Language Processing	3-0-2	4
	EMAI203	Core-Major	Research Methodology & AI Ethics	3-1-0	4
	EMAI204	Core-Major	Computer Vision	3-0-2	4
	EMAI205	Core-Minor	AI/ML Strategy and Business Value Creation	3-1-0	4
			<b>Total Credits</b>		<b>20</b>
			<b>Number of Hours/ Week</b>	<b>15-2-6</b>	<b>23</b>
III	EMAI301	Core-Elective	Elective-1	3-1-0	4
	EMAI302	Core-Elective	Elective-2	3-1-0	4
	EMAI303	Project Work	Project Work / Research + Dissertation	0-0-24	12
			<b>Total Credits</b>		<b>20</b>
			<b>Number of Hours/ Week</b>	<b>15-5-0</b>	<b>20</b>
IV	EMAI401	Core-Elective	Elective-3	3-1-0	4
	EMAI402	Core-Elective	Elective-4	3-1-0	4
	EMAI403	Project Work	Project Work / Research + Dissertation	0-0-24	12
			<b>Total Credits</b>		<b>20</b>
			<b>Number of Hours/ Week</b>	<b>6-2-24</b>	<b>32</b>