



**Shri Vaishnav Vidyapeeth Vishwavidyalaya**  
**Shri Vaishnav Institute of Information Technology**  
**Choice Based Credit System (CBCS) Scheme in the light of NEP-2020**  
**Master of Technology (DATA SCIENCE/BIG DATA ANALYSIS)**

**SEMESTER - II ( 2025-2027)**

Sr. No.	Subject Code	Name of Subject	TEACHING			CREDITS	EXAMINATION SCHEME					TOTAL MARKS
			L	T	P		THEORY			PRACTICAL		
							End Sem University Exam (60%)	Two Term Exam (20%)	Teachers Assessment* (20%)	End Sem University Exam (60%)	Teachers Assessment* (40%)	
1	MTCS201N	Advance Computer Architecture & Organization	3	0	0	3	60	20	20	0	0	100
2	MTCS202N	Advance Database Management System	2	0	2	3	60	20	20	30	20	150
3	MTRM301	Research Methodology in Engineering	3	1	0	4	60	20	20	0	0	100
4	MTCS203	Elective III	2	0	2	3	60	20	20	30	20	150
5	MTCS204	Elective IV	2	0	2	3	60	20	20	30	20	150
6	MTCS207	Python for Data science Lab	0	0	2	1	0	0	0	0	50	50
7	MTCS208	Comprehensive viva	0	0	2	1	0	0	0	100	0	100
8		Generic Elective				3						
			12	1	10	21	300	100	100	190	110	800

Legends: L - Lecture ; T - Tutorial/Teacher Guided Student Activity ; P - Practical ;

\*Teacher Assessment shall be based on following components: Quiz/Assignment/Project/Participation in Class, given that no component shall exceed more than 10 marks.

ELECTIVE-III		ELECTIVE-IV	
MTCS2031	Optimization Techniques for Analytics	MTCS2041	Introduction to Statistical Methods
MTCS2032	Data Management for Machine Learning	MTCS2042	Data Warehousing
MTCS2033	Probabilistic Graphical Models	MTCS2043	Ethics for Data Science

**Chairperson**  
Board of Studies  
Shri Vaishnav Vidyapeeth  
Vishwavidyalaya Indore

**Chairperson**  
Faculty of Studies  
Shri Vaishnav Vidyapeeth  
Vishwavidyalaya Indore

**Controller of Examination**  
Shri Vaishnav Vidyapeeth  
Vishwavidyalaya Indore

**Registrar**  
Shri Vaishnav Vidyapeeth  
Vishwavidyalaya Indore

**Vice Chancellor**  
Shri Vaishnav Vidyapeeth  
Vishwavidyalaya Indore