COURSE OUTLINE: YEAR1
B.Sc. ITM 2024 AB ONWARDS

SEM-I (July-December, 90 Working Days)											
SN	Code	Paper	Credit	Instr. Hrs	Attendance	Sessional		Mid-Sem		End-Sem	
						STest/ Quiz	Assign/ Present	Theory	Practical	Theory	Practical
1	Major-I-P1	Data Structure using C	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
2	Major-I-P2	Operating System	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
3	Min-I-1	Calculus & Analytic Geometry	4	T-60	5M	10M	5M	20M	--	60M	--
4	MDC-1	Physics	3	T-45	5M	10M	5M	20M	--	60M	--
5	AEC-1	Odia Hindi Urdu	4	T-60	5M	10M	5M	20M	--	60M	--
6	VAC-1	Environmental Studies and Disaster Management	3	T-45	5M	10M	5M	20M	--	60M	--
		Total Credits	22	Mid-Sem Exam: 1 Hr | End-Sem Exa-3 Hrs (FM 100)							

SEM-II (January-June, 90 Working Days)											
SN	Code	Paper	Credit	Instr. Hrs	Attendance	Sessional		Mid-Sem		End-Sem	
						STest/ Quiz	Assign/ Present	Theory	Practical	Theory	Practical
1	Major-I-P3	Principles of Management	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
2	Major-I-P4	Java Programming	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
3	Min-II-1	Mathematical Physics	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
4	MDC-2	Computer Fundamental	3	T-45	5M	10M	5M	20M	--	60M	--
5	AEC-2	English	4	T-60	5M	10M	5M	20M	--	60M	--
6	SEC-1	Analytical Ability & Logical Reasoning Organic Farming Translation Skills	3	T-45	5M	10M	5M	20M	--	60M	--
		Total Credits	22	Mid-Sem Exam: 1 Hr | End-Sem Exa-3 Hrs (FM 100)							

COURSE OUTLINE: YEAR2
B.Sc. ITM 2024 AB ONWARDS

SEM-III (July-December, 90 Working Days)											
SN	Code	Paper	Credit	Instr. Hrs	Attendance	Sessional		Mid-Sem		End-Sem	
						S.Test/ Quiz	Assign/ Present	Theory	Practical	Theory	Practical
1	Major-I-P5	Digital Logic	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
2	Major-I-P6	Computer Networks	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
3	Major-I-P7	Business Accounting	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
4	Min-I-2	Introduction to Algebra & Number Theory	4	T-60	5M	10M	5M	20M	--	60M	--
5	MDC-3	Professional Writing / Internet & Ethical Practice / History of Environment & Ecology in Modern India / Entrepreneurship Dev	3	T-45	5M	10M	5M	20M	--	60M	--
6	VAC-2	Ethics and Values	3	T-45	5M	10M	5M	20M	--	60M	--
Total Credits 22				Mid-Sem Exam: 1 Hr | End-Sem Exa-3 Hrs (FM 100)						

SEM-IV (January-June, 90 Working Days)											
SN	Code	Paper	Credit	Instr. Hrs	Attendance	Sessional		Mid-Sem		End-Sem	
						S.Test/ Quiz	Assign/ Present	Theory	Practical	Theory	Practical
1	Major-I-P8	Database Systems	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
2	Major-I-P9	Organizational Behaviour	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
3	Major-I-P10	Foundation of Data Science and Data Analytics	4	T-60	5M	10M	5M	20M	--	60M	--
4	Min-II-2	Mechanics	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
5		Community Engagement & Services/ Field work/ Internship	4	120	100 Marks						
Total Credits 20				Mid-Sem Exam: 1 Hr | End-Sem Exa-3 Hrs (FM 100)							

COURSE OUTLINE: YEAR3
B.Sc. ITM 2024 AB ONWARDS

SEM-V (July-December, 90 Working Days)											
SN	Code	Paper	Credit	Instr. Hrs	Attendance	Sessional		Mid-Sem		End-Sem	
						S.Test/ Quiz	Assign/ Present	Theory	Practical	Theory	Practical
1	Major-I-P11	Web Technology	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
2	Major-I-P12	Software Engineering	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
3	Major-I-P13	Digital Marketing	4	T-60	5M	10M	5M	20M	--	60M	--
4	Min-I-3	Real Analysis	4	T-60	5M	10M	5M	20M	--	60M	--
5	SEC-2	Fundamentals of Data Science & Data Management	3	T-45	5M	10M	5M	20M	--	60M	--
6	VAC-3	Introduction to Artificial Intelligence	3	T-45	5M	10M	5M	20M	--	60M	--
Total Credits 22				Mid-Sem Exam: 1 Hr | End-Sem Exa-3 Hrs (FM 100)						

SEM-VI (January-June, 90 Working Days)											
SN	Code	Paper	Credit	Instr. Hrs	Attendance	Sessional		Mid-Sem		End-Sem	
						S.Test/ Quiz	Assign/ Present	Theory	Practical	Theory	Practical
1	Major-I-P14	Theory of Computation	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
2	Major-I-P15	Python Programming	4	T-45 L-30	5M	5M	--	10M	10M	50M	20M
3	Min-II-3	Electricity & Magnetism	4	T-60	5M	10M	5M	20M	--	60M	--
4	SEC		3	T-45	5M	10M	5M	20M	--	60M	--
5	VAC		3	T-45	5M	10M	5M	20M	--	60M	--
Total Credits 18				Mid-Sem Exam: 1 Hr | End-Sem Exa-3 Hrs (FM 100)						