Chhatrapati Shahu Institute of Business Education and Research Kolhapur

An Autonomous Institute under UGC, Government of India

College with Potential for Excellence (CPE) Phase III

Reaccredited by NAAC with 'A+' Grade, RUSA 2.0

School of Computer Science and Applications

M.Sc. Computer Science

Programme Structure and Syllabus

To be implemented from the academic year 2026-27

Aligned with NEP 2020

Programme Structure

MSc Computer Science I - Level 6.0 - Semester I

Course Code	Course Name	Credits	Contact Hours	CE Marks	Practical Marks	EOS Marks	Total Marks
MCS101	Advanced Operating System	4	60	40		60	100
MCS102	Software Engineering & Agile Methods	2	30	20		30	50
MCS103	Python Programming	4	60		40	60	100
MCS104	Advanced Web Technologies	4	60		40	60	100
MCS105	Research Methodology	2	30	20		30	50
MCS106	Soft Skills	2	30	20		30	50
MCS107	Elective - I a. Mathematical Foundations and Statistical Techniques b. Full Stack Web Development	4	60	40		60	100
Total		**22**					**550**

MSc Computer Science I - Level 6.0 - Semester II

Course Code	Course Name	Credits	Contact Hours	CE Marks	Practical Marks	EOS Marks	Total Marks
MCS201	Computer Networks	4	60	40		60	100
MCS202	Cloud Computing	2	30	20		30	50
MCS203	Data and File Structures	4	60		40	60	100
MCS204	.NET Technology	4	60		40	60	100
MCS205	Foundation of Cyber Security	2	30	20		30	50
MCS206	Field Project	2	60	20		30	50
MCS207	Elective - II a. Artificial Intelligence b. Mobile Application Development	4	60	40		30	50
Total		**22**					**550**

Exit option: PG Diploma (44 Credits) after successful completion of first year (Semester I and Semester II) of PG Degree

MSc Computer Science II - Level 6.5 - Semester III

Course Code	Course Name	Credits	Contact Hours	CE Marks	Practical Marks	EOS Marks	Total Marks
MCS301	Relational Database Management System	4	60	40		60	100
MCS302	Design & Analysis of Algorithm	2	30	20		30	50
MCS303	Advanced Java Programming	4	60		40	60	100
MCS304	Linux Administration	4	60		40	60	100
MCS305	Blockchain Technology	2	30	20		30	50
MCS306	Mini Project	2	60	20		30	50
MCS307	Elective - III a. Machine Learning b. DevOps Basics	4	60	40		30	50
Total		**22**					**550**

MSc Computer Science II - Level 6.5 - Semester IV

Code	Course Title	Credits	Contact Hours	Internal	EOS Marks	Marks
MCS401	**Industry Project**	18	16 weeks			
	Project Documentation				100	100
	Presentation				100	100
	Evaluation by Industry				100	100
	Viva-Voce				100	100
MCS402	MOOC I	4	-	40	60	100
		22				**500**