

Parvatibai Chowgule College of Arts and Science  
(Autonomous)

**DEPARTMENT OF COMPUTER SCIENCE**  
**M.Sc [Information Technology] COURSE STRUCTURE**  
**(2021-2022)**

*Semester I (20 credits)*

Course Code	Course Type	Course Title	Credits	Contact hours/week	
				L	P
PGM-IT.C.1	Core – I	Data Structures and Algorithms	4	4	0
PGM-IT.C.2	Core – II	Operating Systems and Networks	4	4	0
PGM-IT.C.3	Core III Lab – I	Data Structures and Algorithms Lab	2	0	4
PGM-IT.C.4	Core IV Lab – II	Operating Systems and Networks Lab	2	0	4
Elective - I	Elective Course		4	4	0
Elective – II	Elective Course		4	4	0

*Semester II (22 credits)*

Course Code	Course Type	Course Title	Credits	Contact hours/week	
				L	P
PGM-IT.C.5	Core – V	Software Architecture, Design Patterns and Frameworks	4	4	0
PGM-IT.C.6	Core – VI	Design and Analysis of Algorithms	4	4	0
PGM-IT.C.7	Core - VII	Statistical Computing	2	2	0
PGM-IT.C.8	Core VIII Lab – III	Software Architecture, Design Patterns and Frameworks Lab	2	0	4
PGM-	Core IX Lab --	Design and Analysis	2	0	4

IT.C.9	IV	of Algorithms Lab			
	Elective III	Seminar	2	2	0
	Elective IV	Elective Course	4	4	0
	Elective V Lab - V	Elective Lab	2	0	4

***Semester III (14 credits)***

Course Code	Course Type	Course Title	Credits	Contact hours/week	
				L	P
PGM-IT.C.10	Core – X	Information Retrieval	4	4	0
PGM-IT.C.11	Core XI Lab – VI	Information Retrieval Lab	2	0	4
Elective - VI	Elective Course		4	4	0
Elective – VII	Elective Course		4	4	0

***Semester IV (8Credits)***

Course Code	Course Type	Course Title	Credits	Contact hours/week	
				L	P
	Elective–IX	Industrial Project/ Dissertation	8	0	0