

Progressive Education Society's
**Modern College of Arts, Science and
Commerce,**
Shivajinagar, Pune 5
(An Autonomous College Affiliated to Savitribai Phule Pune University)

Framework of Syllabus

For

M.Sc. (Computer Science)

(2019-20 Course)

(with effect from 2019-20)

CIA:Continuous Internal Evaluation

Semester 1 (Part I)

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
CCT-1	19CsCmpP101	Programming Languages (Python)	4	4	50	50	100
CCT-2	19CsCmpP102	Design And Analysis of Algorithms	4	4	50	50	100
CCT-3	19CsCmpP103	Advanced Database Concepts (NoSQL: MongoDB)	4	4	50	50	100
CCP-1	19CsCmpP104	Lab on Programming Languages and Advanced Database Concepts	4	4	50	50	100
DSET-1	19CsCmpP105	Software Development Engineering Testing	4	4	50	50	100
	19CsCmpP106	Artificial Intelligence					
Total			20	20	250	250	100
AECCT-1	19CpCysP101	Cyber Security-I	1	1	50	50	100
AECCT-2	19CpHrtP102	Human Rights-I	1	1	50	50	100
Total			22	22	280	420	700
Extra Credentials		Activity Based Learning-I (MOOC or IIT Bombay Spoken Tutorial, Microsoft Virtual Academy courses)Advanced C, Advanced CPP,Python					

Semester 2 (Part I)

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
CCT-4	19CsCmpP201	Advanced Operating Systems (Unix Internals)	4	4	50	50	100
CCT-5	19CsCmpP202	Mobile Technologies (Android)	4	4	50	50	100
CCT-6	19CsCmpP203	Data Mining and Data Warehousing	4	4	50	50	100
CCP-2	19CsCmpP204	Project on Emerging Trends	4	4	50	50	100
CCP-3	19CsCmpP205	Lab on Advanced Operating Systems and Mobile Technologies	4	4	50	50	100
DSET-2	19CsCmpP206	DOT NET	4	4	50	50	100
	19CsCmpP207	Research Methodology					
Total			24	24	300	300	600
AECCT-3	19CpCysP201	Cyber Security-I	1	1	50	50	100
AECCT-4	19CpHrtP202	Human Rights-I	1	1	50	50	100
Total			26	26	320	480	800

Extra Credentials	Activity Based Learning-II (MOOC or IIT Bombay Spoken Tutorial, Microsoft Virtual Academy courses) Linux, C# Fundamentals
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Semester 3 (Part II)

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
CCT-7	19CsCmpP301	Cloud computing	4	4	50	50	100
CCT-8	19CsCmpP302	User Experience and Design (Wireframe, User Persona)	4	4	50	50	100
CCT-3	19CsCmpP303	Project on Emerging Trends	4	4	50	50	100
CCP-4	19CsCmpP304	Lab on Cloud Computing and User Experience and Design	4	4	50	50	100
DSET-3	19CsCmpP305	Soft Computing	4	4	50	50	100
	19CsCmpP306	Machine Learning					
Total			20	20	250	250	100
AECCT-5	19CpCysP301	Cyber Security-III	1	1	50	50	100
AECCT-6	19CpSkdP302	Skill Development-I	2	2	50	50	100
Total			23	23	280	420	700

Semester 4 (Part II)

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
CCP-1	19CsCmpP401	Industrial Training		16	200	200	400
AECCT-5	19CpCysP401	Cyber Security-IV	1	1	50	50	100
AECCT-6	19CpSkdP402	Skill Development-II	2	2	50	50	100
Total			3	19	280	420	600