



**Format of Course Wise Programme outcome Mapping**  
 janata shikshan Prasarak Mandals  
**Marutraoji Ghule Patil Arts, Commerce and Science college Ahmednagar**  
**Name of Programme Bachelor of Computer Science CBCS2019**



**Course wise P.O. and P.S.O. Mapping Chart**

YEAR	Name of course	Course Code	P.O.1	P.O.2	P.O.3	P.O.4	P.O.5	P.O.6	P.O.7	P.O.8	P.S.O. 2	P.S.O. 3	P.S.O.4
First year BSc computer Sem 1 and 2	Problem solving using computer and C programming	CS-111	2.6	2.2	2.6	1.8	-	-	-	-	1.6	2.2	1.8
	Database Management Systems	CS-112	2.2	2	2	2.2	-	-	-	-	1.6	2.2	2
	Practical Course based on CS-101 and CS-102 (C and DBMS)	CS-113	2	2.25	2	2.5	-	-	-	-	2.8	2.8	2.25
	Semiconductor Devices and Basic Electronic Systems	ELC-111	2.5	1.5	2.5	2.5	-	-	-	-	2.5	3	1.5
	Principles of Digital Electronics	ELC-112	2.5	1.8	2.5	2.3	-	-	-	-	1.8	2.0	2.5
	Electronics Practical Paper – I	ELC-113	2.0	1.5	2.3	2.0	-	-	-	-	2.5	2.0	2.3
	Matrix Algebra	MTC 111	2.2	1.7	2.3	1.7	-	-	-	-	2.2	1.8	2.2
	Discrete Mathematics	MTC 112	1.7	1.7	1.8	2.0	-	-	-	-	2.0	1.8	2.3
	Mathematics Practical	MTC 113	2.2	2.2	2.2	2.2	-	-	-	-	2.2	2.2	2.3
	Descriptive Statistics	CSST 111	1.5	2.5	2.5	2	-	-	-	-	2.5	2.5	2

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**College Code-893**

**Marutraoji Ghule Patil Arts, Commerce and Science College, Ahmednagar**

**Marutraoji Ghule Patil Arts, Commerce and Science College, Ahmednagar**



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First year BSc computer Sem 1 and 2	Mathematical Statistics	CSST 112	2.5	2.5	2.5	3.0	-	-	-	-	2.0	2.5	2.5
	Statistics Practical Paper I	CSST 113	2.1	2.0	2.3	2.2	-	-	-	-	2.2	2.1	2.3
	Advanced C programming	CS 201	1.5	2.5	2.5	1.5	-	-	-	-	2.0	1.5	2.0
	Relational database Management Systems	CS-202	3.0	2.3	2.8	3.0	-	-	-	-	3.0	2.3	2.5
	Practical Course based on CS-201 and CS-202(Advanced C and RDBMS)	CS-203	3.0	3.0	3.0	3.0	-	-	-	-	2.5	2.5	3.0
	Instrumentation System	ELC-121	1.7	2.7	2.3	2.3	-	-	-	-	1.7	2.0	1.7
	Basics of Computer Organization	ELC-122	2.3	2.0	1.7	2.3	-	-	-	-	1.7	3.0	2.3
	Electronics Practical Paper – II	ELC-123	2.5	2.5	2.5	1.5	-	-	-	-	2.0	2.3	2.0
	Linear Algebra	MTC 121	2.5	2.5	2.5	1.5	-	-	-	-	2.0	2.3	2.0

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	Graph Theory	MTC 122	2.4	2.5	2.5	2.2	-	-	-	-	2.1	2.3	2.2
	Mathematics Practical	MTC 123	2.7	2.0	2.3	2.3	-	-	-	-	2.3	2.3	2.7
	Method of Applied Statistics	CSST 121	2.0	2.0	1.5	1.5	-	-	-	-	2.0	1.5	2.0
	Statistics Practical Paper II	CSST 123	2.5	2.0	2.0	1.5	-	-	-	-	2.0	1.5	2.5
Second Year Bsc copmputer Sem 3 and 4	Data Structures and Algorithms – I	CS 231	2.7	2.3	1.3	1.3	-	-	-	-	1.3	2.0	3.0
	Software Engineering	CS 232	2.0	2.0	1.7	2.0	-	-	-	-	1.7	1.3	3.0
	CS 233 Practical course on CS 231 & CS 232	CS 233	2.0	1.4	2.1	1.1	-	-	-	-	1.7	2.4	2.9
	Microcontroller Architecture & Programming	ELC-231	2.3	1.1	1.7	2.0	-	-	-	-	2.4	1.6	2.6
	Digital Communication & Networking	ELC-232	2.6	1.4	2.0	2.0	-	-	-	-	2.3	1.7	2.0
	Practical Course I	ELC-233	1.8	2.3	2.4	1.5	-	-	-	-	2.4	2.5	1.8

  
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Second Year Bsc copmputer Sem 3 and 4	Groups and Coding Theory	MTC-231	2.8	1.4	1.8	1.6	-	-	-	-	2.2	2.2	2.2
	Numerical Techniques	MTC-232	2.8	1.5	1.3	1.8	-	-	-	-	1.5	1.5	2.3
	Mathematics Practical: Python Programming Language-I	MTC-233	2.6	1.6	1.6	2.2	-	-	-	-	1.8	2.0	2.8
	Data Structures and Algorithms – II	CS 241	2.7	1.3	2.3	2.3	-	-	-	-	1.7	2.3	2.3
	Computer Networks-I	CS 242	3.0	1.7	1.3	1.7	-	-	-	-	2.3	1.3	3.0
	Practical course on CS 241&242	CS 243	2.0	2.2	2.0	2.0	-	-	-	-	2.2	1.8	2.7
	Embedded System Design	ELC-241	2.3	2.0	1.2	2.2	-	-	-	-	1.5	1.7	2.7
	Digital Communication & Networking	ELC-242	2.7	1.7	1.3	1.3	-	-	-	-	2.2	1.3	2.5
	Practical Course II	ELC-243	2.6	2.4	1.4	1.6	-	-	-	-	2.6	2.2	3.0
	Computational Geometry	MTC-241	2.7	1.9	1.6	2.7	-	-	-	-	2.1	1.3	2.6

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	Operations Research	MTC-242	2.5	1.8	1.5	2.0	-	-	-	-	1.8	1.7	2.8
	Mathematics Practical: Python Programming Language-II	MTC-243	2.6	1.7	2.1	1.6	-	-	-	-	1.7	2.9	2.1
	AECC- ENGLISH	24922	2.6	2.0	1.6	1.7	1.4	-	-	-	2.2	1.0	1.0
	AECC-I ENVIRONMENTAL AWARENESS - II	24921	2.6	2.6	2.8	1.7	2.7	-	-	-	2.2	1.0	1.0
Third Year Bsc computer Sem 5 and 6	Operating Systems – I	CS-351	1.8	2.3	2.3	1.5	-	-	-	-	1.3	2.0	1.5
	Computer Networks – II	CS-352	2.0	2.0	2.5	2.5	-	-	-	-	1.3	2.5	1.0
	Practical course based on CS 351	CS-357	1.5	2.3	2.5	1.3	-	-	-	-	1.3	2.3	1.8
	Web Technologies – I	CS-353	1.5	2.0	2.5	2.5	-	-	-	-	1.5	2.8	1.3
	Foundations of Data Science	CS-354	1.0	2.0	2.0	1.8	-	-	-	-	2.0	2.0	1.3
	Practical course based on CS 353 and CS 354	CS-358	1.5	2.0	2.5	2.0	-	-	-	-	1.5	2.3	1.8

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Third Year Bsc computer Sem 5 and 6	Object-Oriented Programming using Java – I	CS-355	1.7	2.0	2.3	3.0	-	-	-	-	1.3	2.5	1.0
	Theoretical Computer Science	CS-356	1.7	1.7	2.3	1.0	-	-	-	-	1.7	1.7	2.0
	Practical Course based on CS 355	CS-359	2.7	2.3	2.3	2.7	-	-	-	-	1.3	2.0	1.0
	Python Programming	CS-3510	2.0	1.8	2.3	2.0	-	-	-	-	1.8	1.8	1.3
	Blockchain Technology	CS-3511	1.3	2.0	2.3	2.3	-	-	-	-	1.7	2.0	1.0
	Operating Systems – II	CS-361	2.7	2.0	2.3	1.3	-	-	-	-	2.3	1.3	3.0
	Software Testing	CS-362	2.8	2.2	1.4	2.2	-	-	-	-	2.2	2.4	1.4
	Practical course based on CS 361	CS-367	2.3	2.0	2.3	1.8	-	-	-	-	2.0	2.0	3.0
	Web Technologies – II	CS-363	2.0	1.8	1.5	1.8	-	-	-	-	2.0	1.3	2.5
	Data Analytics	CS-364	2.5	2.0	1.5	2.3	-	-	-	-	2.5	1.3	2.8

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Third Year Bsc computer Sem 5 and 6	Practical course based on CS 363 and CS 364	CS-368	2.8	1.8	2.0	1.8	-	-	-	-	2.5	1.3	2.8
	Object-Oriented Programming using Java – II	CS-365	2.8	2.0	1.8	1.8	-	-	-	-	2.3	2.3	1.5
	Compiler Construction	CS-366	2.8	2.0	1.8	1.8	-	-	-	-	2.3	2.3	1.5
	Practical Course based on CS 365	CS-369	3.0	2.0	1.7	2.0	-	-	-	-	1.7	1.7	3.0
	Software Testing Tools	CS-3610	2.8	2.2	2.0	1.8	-	-	-	-	1.8	2.0	2.0
P.O. and P.S.O			P.O.1	P.O.2	P.O.3	P.O.4	P.O.5	P.O.6	P.O.7	P.O.8	P.S.O. 2	P.S.O. 3	P.S.O.4
Overall P.O. and P.S.O. Mapping Average			2.1	2.0	2.1	1.9	-	-	-	-	1.8	2.0	1.8



  
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