



**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 pattern

T.Y. B.Sc. Computer Science (A.Y.2021-22)

Course wise P.O. and P.S.O. Attainment Chart



CO-PO-PSO Attainment	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
<b>CS351 OPERATING SYSTEM-I</b>	Number of Students-31							Average CO Attainment - 2.6129			
Weighted Average	1.75	2.25	2.25	1.5	0	0	0	0	1.25	2	1.5
<b>CO-PO ATTAINMENT</b>	<b>1.52</b>	<b>1.96</b>	<b>1.96</b>	<b>1.31</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.09</b>	<b>1.74</b>	<b>1.31</b>
<b>CS352 COMPUTER NETWORKS-I</b>	Number of Students-31							Average CO Attainment -2.5805			
Weighted Average	2	2	2.5	2.5	0	0	0	0	1.25	2.5	1
<b>CO-PO ATTAINMENT</b>	<b>1.72</b>	<b>1.72</b>	<b>2.15</b>	<b>2.15</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.08</b>	<b>2.15</b>	<b>0.86</b>
<b>CS353 Web Technologies -I</b>	Number of Students-31							Average CO Attainment -2.3871			
Weighted Average	1.5	2	2.5	2.5	0	0	0	0	1.5	2.8	1.3
<b>CO-PO ATTAINMENT</b>	<b>1.20</b>	<b>1.60</b>	<b>2.00</b>	<b>2.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.20</b>	<b>2.20</b>	<b>1.00</b>
<b>CS357 Practical course based on CS 351</b>	Number of Students-31							Average CO Attainment -2.1290			
Weighted Average	1.5	2.3	2.5	1.3	0	0	0	0	1.3	2.3	1.8
<b>CO-PO ATTAINMENT</b>	<b>1.10</b>	<b>1.60</b>	<b>1.80</b>	<b>0.90</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.90</b>	<b>1.60</b>	<b>1.20</b>
<b>CS354 FOUNDATION OF DATA SCIENCE</b>	Number of Students-31							Average CO Attainment -2.2258			
Weighted Average	1	2	2	1.8	0	0	0	0	2	2	1.3
<b>CO-PO ATTAINMENT</b>	<b>0.70</b>	<b>1.50</b>	<b>1.50</b>	<b>1.30</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.50</b>	<b>1.50</b>	<b>0.90</b>
<b>CS358 Practical CS 353 and CS 354</b>	Number of Students-31							Average CO Attainment -2.0645			
Weighted Average	1.5	2	2.5	2	0	0	0	0	1.5	2.3	1.8
<b>CO-PO ATTAINMENT</b>	<b>1.03</b>	<b>1.38</b>	<b>1.72</b>	<b>1.38</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.03</b>	<b>1.55</b>	<b>1.20</b>
<b>CS 355 OBJECT ORIENTED PROGRAMMING USING JAVA-I</b>	Number of Students-31							Average CO Attainment -2.7741			
Weighted Average	1.7	2	2.3	3	0	0	0	0	1.3	2.5	1
<b>CO-PO ATTAINMENT</b>	<b>1.50</b>	<b>1.80</b>	<b>2.20</b>	<b>2.80</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.20</b>	<b>2.30</b>	<b>0.90</b>
<b>CS356 Theoretical Computer Science</b>	Number of Students-31							Average CO Attainment -1.9354			
Weighted Average	1.7	1.7	2.3	1	0	0	0	0	1.7	1.7	2
<b>CO-PO ATTAINMENT</b>	<b>1.08</b>	<b>1.08</b>	<b>1.51</b>	<b>0.65</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.08</b>	<b>1.08</b>	<b>1.29</b>
<b>CS359 Practical Course based on CS 321</b>	Number of Students-31							Average CO Attainment - 1.9677			
Weighted Average	2	1.8	1.5	1.8	0	0	0	0	2	1.3	2.5
<b>CO-PO ATTAINMENT</b>	<b>1.30</b>	<b>1.10</b>	<b>1.00</b>	<b>1.10</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.30</b>	<b>0.80</b>	<b>1.60</b>

*Harshad*  
HEAD

Department of Computer Science  
Marutraoji Ghule Patil Art's  
Commerce & Science College  
Nagapur, Ahmednagar  
College Code- 893

*[Signature]*

IQAC  
Co-Ordinator  
Marutraoji Ghule Patil Arts, Commerce  
and Science College, Ahmednagar

*[Signature]*

PRINCIPAL  
Marutraoji Ghule Patil Arts,  
Commerce & Science College  
Nagapur, Ahmednagar  
College Code-893





### 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 pattern

T.Y. B.Sc. Computer Science (A.Y.2021-22)

Course wise P.O. and P.S.O. Attainment Chart



CO-PO-PSO Attainment	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
CS3510 Python Programming			Number of Students-31					Average CO Attainment -2.3871			
Weighted Average	2	1.8	2.3	2	0	0	0	0	1.8	1.8	1.3
CO-PO ATTAINMENT	1.60	1.40	1.80	1.60	0.00	0.00	0.00	0.00	1.40	1.40	1.00
CS3511 Blockchain Technology			Number of Students-31					Average CO Attainment - 1.8709			
Weighted Average	1.3	2	2.3	2.3	0	0	0	0	1.7	2	1
CO-PO ATTAINMENT	0.80	1.20	1.50	1.50	0.00	0.00	0.00	0.00	1.00	1.20	0.60
CS361 OPERATING SYSTEM-II			Number of Students-31					Average CO Attainment - 1.9354			
Weighted Average	2.7	2	2.3	1.3	0	0	0	0	2.3	1.3	3
CO-PO ATTAINMENT	1.70	1.30	1.50	0.90	0.00	0.00	0.00	0.00	1.50	0.90	1.90
CS362 SOFTWARE TESTING			Number of Students-31					Average CO Attainment -1.8387			
Weighted Average	2.8	2.2	1.4	2.2	0	0	0	0	2.2	2.4	1.4
CO-PO ATTAINMENT	1.70	1.30	0.90	1.30	0.00	0.00	0.00	0.00	1.30	1.50	0.90
CS367 CS PRACTICAL			Number of Students-31					Average CO Attainment -2.0322			
Weighted Average	2.7	2	2.3	1.3	0	0	0	0	2.3	1.3	3
CO-PO ATTAINMENT	1.80	1.40	1.60	0.90	0.00	0.00	0.00	0.00	1.60	0.90	2.00
CS363 Web Technologies – II			Number of Students-31					Average CO Attainment -2.1290			
Weighted Average	2	1.8	1.5	1.8	0	0	0	0	2	1.3	2.5
CO-PO ATTAINMENT	1.40	1.20	1.10	1.20	0.00	0.00	0.00	0.00	1.40	0.90	1.80
CS364 DATA ANALYTICS			Number of Students-31					Average CO Attainment -1.8709			
Weighted Average	2.5	2	1.5	2.3	0	0	0	0	2.5	1.3	2.8
CO-PO ATTAINMENT	1.60	1.20	0.90	1.40	0.00	0.00	0.00	0.00	1.60	0.80	1.70
CS368 CS PRACTICAL			Number of Students-31					Average CO Attainment -2.0322			
Weighted Average	2.75	1.75	2	1.75	0	0	0	0	2.5	1.25	2.75
CO-PO ATTAINMENT	1.86	1.19	1.35	1.19	0.00	0.00	0.00	0.00	1.69	0.85	1.86
CS365 OBJECT ORIENTED PROGRAMMING USING JAVA-II			Number of Students-31					Average CO Attainment -2.1612			
Weighted Average	2.8	2	1.8	1.8	0	0	0	0	2.3	2.3	1.5
CO-PO ATTAINMENT	2.00	1.40	1.30	1.30	0.00	0.00	0.00	0.00	1.60	1.60	1.10

*S. B. Bhat*  
HEAD

Department of Computer Science  
Marutraoji Ghule Patil Art's  
Commerce & Science College  
Nagapur, Ahmednagar  
College Code- 893

*Dr. S. B. Bhat*  
IQAC

Co-Ordinator  
Marutraoji Ghule Patil Arts, Commerce  
and Science College, Ahmednagar

*S. B. Bhat*  
PRINCIPAL  
Marutraoji Ghule Patil Arts,  
Commerce & Science College  
Nagapur, Ahmednagar  
College Code-893





## 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 pattern

T.Y. B.Sc. Computer Science (A.Y.2021-22)



### Course wise P.O. and P.S.O. Attainment Chart

CO-PO-PSO Attainment	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
<b>CS366 COMPILER CONSTRUCTION</b>	Number of Students-31							Average CO Attainment -2			
Weighted Average	2.75	2	1.75	1.75	0	0	0	0	2.25	2.25	1.5
<b>CO-PO ATTAINMENT</b>	<b>1.83</b>	<b>1.33</b>	<b>1.17</b>	<b>1.17</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.50</b>	<b>1.50</b>	<b>1.00</b>
<b>CS369 Practical Course based on CS 365</b>	Number of Students-31							Average CO Attainment -2			
Weighted Average	3	2	1.7	2	0	0	0	0	1.7	1.7	3
<b>CO-PO ATTAINMENT</b>	<b>2.00</b>	<b>1.30</b>	<b>1.10</b>	<b>1.30</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.10</b>	<b>1.10</b>	<b>2.00</b>
<b>CS3610 Software Testing Tools</b>	Number of Students-31							Average CO Attainment -2.4516			
Weighted Average	2.8	2.2	2	1.8	0	0	0	0	1.8	2	2
<b>CO-PO ATTAINMENT</b>	<b>2.30</b>	<b>1.80</b>	<b>1.60</b>	<b>1.50</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.40</b>	<b>1.60</b>	<b>1.60</b>
<b>CS3611 Project</b>	Number of Students-31							Average CO Attainment -2.4516			
Weighted Average	2.8	2.2	2	1.8	0	0	0	0	1.75	2	2
<b>PO ATTAINMENT</b>	<b>1.93</b>	<b>1.51</b>	<b>1.38</b>	<b>1.24</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.20</b>	<b>1.38</b>	<b>1.38</b>

*[Signature]*  
HEAD

Department of Computer Science  
Marutraoji Ghule Patil Art's  
Commerce & Science College  
Nagapur, Ahmednagar  
College Code- 893

*[Signature]*

IQAC  
Co-Ordinator  
Marutraoji Ghule Patil Arts, Commerce  
and Science College, Ahmednagar

*[Signature]*

PRINCIPAL  
Marutraoji Ghule Patil Arts,  
Commerce & Science College  
Nagapur, Ahmednagar  
College Code-893